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Final Report

Site Inspection

Antelope Valley Pesticide Container Disposal Site

Lander County Nevada

December, 1988



FINAL SITE INVESTIGATION REPORT ANTELOPE VALLEY PESTICIDE CONTAINER DISPOSAL SITE LANDER COUNTY

Prepared for The United States Department of Interior Bureau of Land Management

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SECTION 1 SUMMARY

A site investigation was conducted at the two-acre Antelope Valley Pesticide Container Dumpsite located about 42 miles south of Battle Mountain in Lander County, Nevada. Surface soil samples were collected on May 19, 1988 from areas on the site thought to represent the highest potential for pesticide/herbicide contamination. Site conditions were observed and documented, available records were reviewed, an EPA site inspection report (form 2070-13) was completed, and an EPA Hazard Ranking System (HRS) was applied to the site.

1.1 DEGREE OF RISK TO HUMAN HEALTH AND THE ENVIRONMENT

Organochlorine pesticides, PCBs organophosphorous and pesticides were not detected in soil samples collected during the Antelope Valley site investigation. organic compounds (acetone, chloroform, 1,1 dichloroethene, trichloroethene, benzene, toluene and methylene chloride) were reported at very low concentrations, but the results are suspect since they occur in the lab blank and/or the upgradient, background sample, or occur below the detection Alpha endosulfan and chloroform were discovered during the Preliminary Assessment (PA) (AEPCO, 1987), but since they were not identified in the site investigation, the results probably were a result of sampling shortly after an episode of disposal.

No surface water or groundwater was encountered during the on-site activities, but groundwater is used extensively downgradient for domestic, irrigation and stock purposes. Bedrock is very shallow below the site occurring at the base of the disposal pit at around 10 feet. The alluvium thickens north and east of the site, and several water wells have been identified which tap the alluvium around 110 feet. The ephemeral Cain Creek flows northeasterly around 0.25 miles north of the site.

The chemical results indicate significant soil contamination does not exist at the site. Based on these results, the low annual rainfall (around 7 inches) and the buffer distance of one mile to the nearest well indicate that a threat to human health or the environment does not exist. However, improper disposal practices including the observed presence of liquids within several glass containers were identified during the site investigation.

The site has been ranked as Class II and has been given an HRS score of 7.38. This classification and score reflect that soil contamination has not been identified and only empty, potentially contaminated pesticide containers are present. The presence of a small quantity of unknown liquids within the one-gallon jars labeled <u>Dibrom 8 Spray</u> was a major factor in the HRS score. <u>Dibrom 8 Spray</u> contains naled which is categorized as extremely toxic thus producing the high HRS score. Naled is an organophosphorus compound used in pesticides and acaricides.

1.2 RESPONSIBLE PARTIES AND OFF-SITE CONTRIBUTORS

The Antelope Valley Pesticide Container site was provided by the Bureau of Land Management (BLM) to the Lander County Commissioners since October 1, 1971 under an indefinite Special Land Use Permit (SLUP) # N6-72-11. Lander County has been the sole operator. Specific contributors disposed of the containers under county management. No off-site contributors of hazardous substances are known or suspected.

1.3 RECOMMENDED ACTIONS

The site investigation results of the Antelope Valley Pesticide Container Dump indicate no soil contamination exists. However, soil contamination was identified during the October, 1986 sampling for the PA, and liquid is present in several glass containers within the pit. The waste must therefore be considered hazardous and the potential for migration of chemical constituents to a shallow aquifer exists.

Groundwater and surface water were not encountered, but groundwater is used extensively down-gradient for domestic, irrigation and stock uses. The nearest down-gradient well is shown on the Mt. Moses Quadrangle (USGS, 1961) approximately one mile east of the site. Since disposal practices are poorly managed and are not in accordance with proper containment protocols (40 CFR Part 265.300), WESTON recommends the following:

- o Remove all liquids;
- o Post warning signs and inspect the perimeter fence periodically;
- O Conduct site survey to delineate trench boundaries and identify possible sumps; and
- o Close the existing disposal pit.

SECTION 2 SITE BACKGROUND INFORMATION

2.1 LOCATION

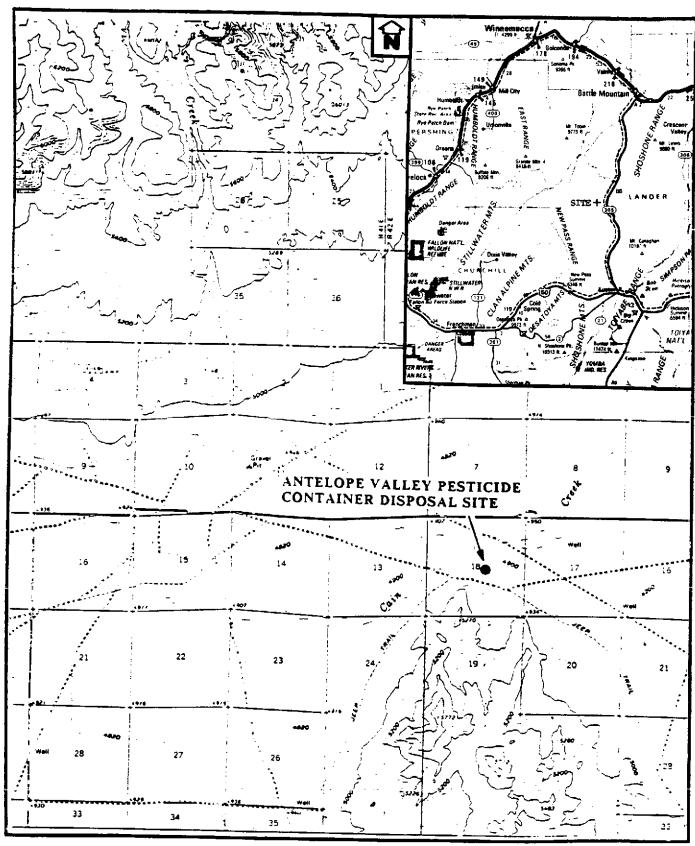
The Antelope Valley Pesticide Container Disposal Site is located within the Antelope Valley in Lander County, Nevada at latitude $40^{\circ}02'30"$ N and longitude $117^{\circ}14'30"$ W (Figure 2-1).The site, as shown on the 15-minute Mt. Quadrangle map (USGS, 1961), is located approximately 5.5 miles west of Route 305 (or Route 8A), which connects the Towns of Battle Mountain and Austin. The Town of Austin, the interchange of Routes 305 and approximately 47 miles south of the site. Battle Mountain, adjacent to the interchange of Route 305 and Interstate 80, lies approximately 42 miles north. The legal description of the site is NW 1/4 SE 1/4, Section 18, Township 25 N, Range 42 E, MDM. The site lies at the end of an unimproved access road approximately 0.5 miles south of the county road leading to Antelope Valley.

2.2 SITE DESCRIPTION

The site is located at the northern end of what is known as the Bridges Hills at an approximate elevation of 4,920 feet above mean sea level (Figure 2-1). Slope at the site is from west to east (away from the Bridges Hills) at about 12%. The major topographic feature in the area is Antelope Valley which is drained by the ephemeral Cain Creek. The main axis of Antelope Valley occurs west of the site and is bounded by the Augusta Mountains on the west, the Fish Creek Mountains on the north and the Bridges Hills on the east. The valley narrows as it bends eastward around the Bridges Hills, opening again into the Middle Reese River Valley. Cain Creek lies approximately 0.25 miles north of the site and flows northeasterly into the Reese River which in-turn flows northward toward Battle Mountain.

The region has an arid climate receiving between 6 and 16 inches average precipitation per year. The average annual temperature is around 48°F, but freezing temperatures have been recorded in every month of the year, and as much as 130 degrees difference between the high and the low have been recorded. The air is generally clear, but "dust devils" and





SOURCE: USGS QUADRANGLE MAP

0 1.0 2.0 MILES

(Mt. Moses, NV 15-Minute Series Quadrangie Map)

FIGURE 2-1 SITE LOCATION MAP

strong winds are common throughout the spring, summer, and fall. Winds are mainly from the southwest. The vegetation consists of shadscale, low sage, rabbit brush, and bud sage with an understory of squirreltail, cheatgrass, and Indian ricegrass. Some of the forbs in the understory are wild mustard and halogeton (Zieg, 1971).

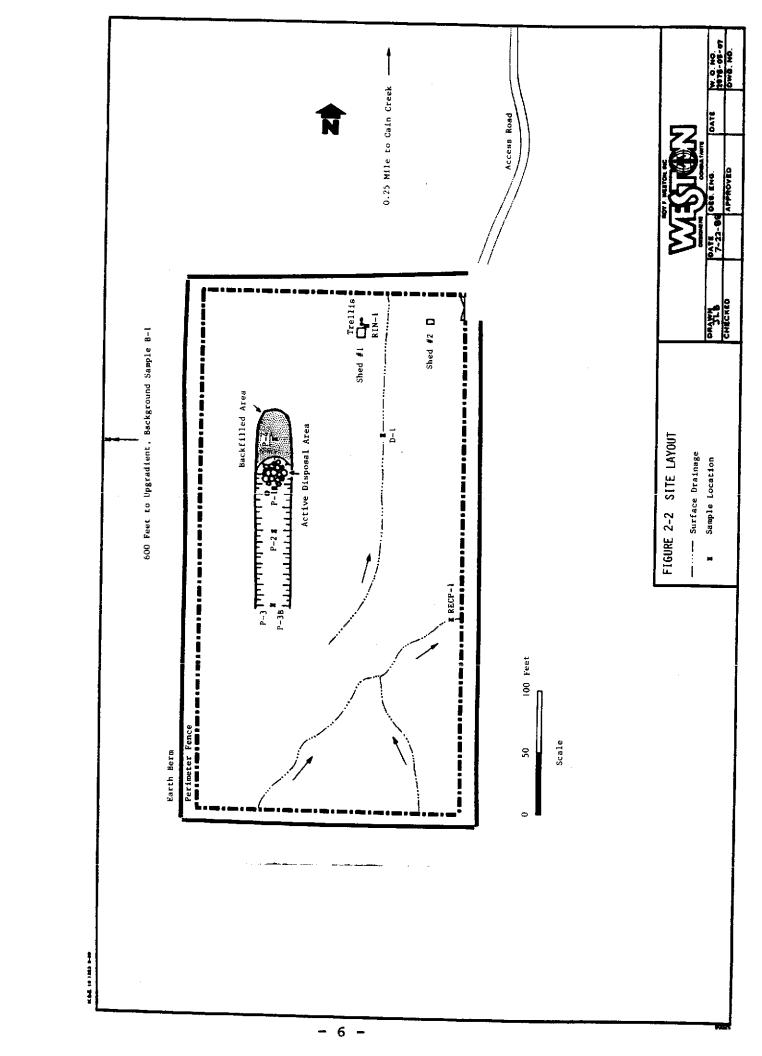
2.3 SITE LAYOUT

The site is encircled by an 8-foot woven wire fence with an additional two strands of barbed wire strung back-breakers (angulars) on the top of each post (Figures 2-2 and 2-3a). Access to the site is through a locked gate located in the northeast corner. The key to the lock is under the custody of the Lander County Commissioner, but was made available to a representative of the BLM Battle Mountain District who was present for the activities. The gate and fence are in good condition, but lack posted warning signs. The fence is 417 feet x 209 feet occupying two acres of BLM-owned land. A one to two- foot earth berm surrounds the fence to divert surface runoff around the site.

The site contains one disposal trench approximately 35 feet away from the western fence (Figure 2-3b). The trench is approximately 119 feet x 27 feet x 10 feet with an additional 37 feet of backfilled material on the northern end. The trench is ramped to the south, and present disposal is confined to the northern 20-25 feet. Lack of any rubbish other than the permitted containers indicates the site adequately restricts general public access. Two empty storage sheds and a trellis suspected to be used for rinsing the empty pesticide/herbicide containers are located near the northern fence. Shed #2 has been upset and appears to have moved. No sumps were identified and it is unknown if additional sumps are planned.

2.4 <u>SITE HISTORY</u>

The two-acre parcel of BLM-owned land in Antelope Valley was selected in 1971 for disposal of empty pesticide/herbicide containers. The application for a Special Land Use Permit (SLUP) containing a Statement of Environmental Impact-Draft (Zieg, 1971) was submitted to the BLM in September, 1971 by the Lander County Commissioners. The SLUP was approved for one year in October, 1971 and extended indefinitely in January, 1973. In 1985, BLM proposed the sale of the property to Lander County under Sections 206 and 209 of the Federal Land Policy and Management Act (1976) (Kershaw, 1988). The land was appraised and a Preliminary Assessment (PA) Report on the hazards was generated (AEPCO, 1987).



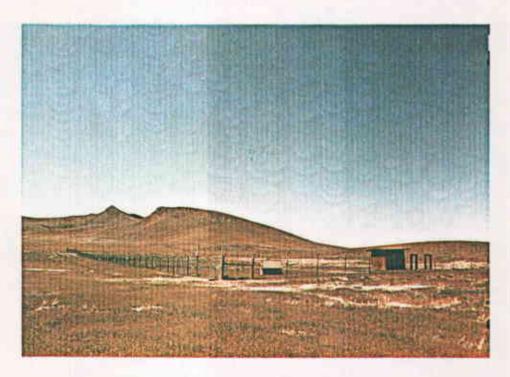


Figure 2-3a Antelope Valley Site. View is southwest with the Bridges Hills in the background.



Figure 2-3b Active Disposal Pit. View is northeast.

Payment was made to the BLM in October, 1986 for the 12.5 acres containing the site, but final patent was not issued. WESTON was retained in 1988 to conduct a Site Inspection prior to issuing the patent. A detailed chronology of site events is available in the PA (AEPCO, 1987).

SECTION 3 SCOPE OF EVALUATION AND ANALYTICAL EFFORT

3.1 BACKGROUND DATA ACQUISITION

Available background data obtained from the Bureau of Land Management (BLM) District Offices in Reno and Battle Mountain include:

- o Site maps, regional maps;
- o Specifications for Agricultural Chemical Container Disposal Pits (Smith, 1970);
- Statement of Environmental Impact-Draft (Zieg, 1971);
- Original Special Land Use Permit (SLUP)(1971) and extension (1973);
- Preliminary Assessment (PA) Report (AEPCO, 1987);
 and
- Case history and appraisals.

3.2 ENVIRONMENTAL MONITORING AND SAMPLING PROGRAM

The objective of the site monitoring and sampling program was to observe and document on-site conditions and to safely and representatively sample all potentially hazardous materials. Efforts were directed at obtaining information that could be used to develop plans for possible remedial actions, and to assist in cost recovery from potentially responsible parties.

Initially, an off-site reconnaissance survey was conducted around the perimeter and in the general vicinity of the site. The general layout of the site was observed and mapped. No evidence for off-site migration of contaminants, or hazardous conditions were noted.

Available background information on the Antelope Valley site indicates that approximately 79 empty pesticide containers have been disposed of in a trench at the site. Analytical results of soil samples collected during PA activities detected low levels of volatile organic, pesticide, and metallic compounds. The inorganic compounds (metals and cyanide) were below EP Toxicity RCRA standards. The contaminants of concern were alpha endosulfan and chloroform detected at 70 and 3 ug/kg, respectively.

The SI sampling plan focused on areas of the site thought to represent the highest potential for pesticide/herbicide contamination. Nine discrete surface samples were obtained during the investigation. Five were collected from the pit area corresponding to Stations 02-05 of the PA (Figure 2-2 and AEPCO, 1987). Three more samples were collected within the site; one near the rinsing station and two in shallow rills draining the site. One sample was collected on the ridge west of the site to obtain background level for quality assurance. Samples were collected one to two feet below the surface using a stainless steel hand auger and placed directly into eight ounce laboratory-cleaned glass jars with teflon-lined lids. Two samples within the pit (AV-P-1 and AV-P-2) were obtained from the upper few inches of soil due to the shallow depth to bedrock. Bedrock was not encountered at the southern end of the pit nor in the other samples. Sample AV-P-3 and AV-P-3B were taken from the same hole, at the surface and at 1.5 feet respectively. The samples were stored on ice and shipped according to U.S. chain-of-custody procedures (Appendix B). consisted of poorly sorted sand and gravel.

3.3 <u>SAMPLING RESULTS</u>

Two sampling episodes were conducted at the site for the PA (AEPCO, 1987). Grab samples were composited to form samples WS-A (1/14/86) and WS-B (10/15/86).

PARAMETER	WS-A		<u>ws</u>	<u>5-B</u>
Alpha Endosulfan Benzoic acid				ug/kg ug/kg
Chloroform				ug/kg
Cyanide				mg/kg
Silver	10 u	g/1		
Arsenic	24 u	g/l		
Barium	327 u			
Cadmium	<5 น	• .		
Chromium	<10 u			
Mercury	<0.2 u			
Lead	5 u			
Selenium	<5 u			

The two composite samples were taken at the same sample location with the exception of Station 02 that was not included in WS-B. Only inorganic compounds were detected at low concentrations in WS-A, where only low concentrations of organic compounds were detected in WS-B.

Benzoic acid was identified below the laboratory detection level of 5000 ug/L and was not addressed in the PA (AEPCO, 1987). Since sample WS-B was a composite, the source and occurrence of benzoic acid is unknown. However, benzoic acid is used in perfumes, as tobacco seasoning and as a food preservative up to 0.1% (Van Nostrand Reinhold Company, 1981). Benzoic acid is not on the EPA Hazardous Substance List (HSL) and must be specified for laboratory analysis.

All nine samples for this investigation were analyzed by WESTON Analytics in Stockton, California for organochlorine pesticides, PCBs, volatile organic compounds organophosphorous pesticides. No compounds were detected in any of the samples with the exception of methylene chloride, acetone, chloroform, 1,1 dichloroethene, trichloroethene, benzene and toluene which occur at very low concentrations (Table 3-1, Appendix A). Methylene chloride is a common lab contaminant and is present in both the lab blank and in the upgradient, background sample (AV-B-1). Acetone is also a common lab contaminant and is found in AV-B-1. Chloroform was identified below the laboratory detection level of 3 ug/L and was present in the lab blank and in sample AV-B-1. Trichloroethene, 1,1 dichloroethene, benzene and toluene were similarly identified below detection levels in sample AV-P-4. These values are reported with a "J" in the laboratory results (Appendix \hat{A}) indicating the compounds meet the laboratory identification criteria, but occur below the practical qualification limit "J" valves are estimated, therefore, rather than accurately quantified. detection levels are based on the smallest concentration used for instrument calibration.

No soil contamination was identified during the site investigation activities. The occurrence of alpha endosulfan in the PA is probably due to the addition of about five new drums of Malathion between the January, 1986 (WS-A) and October, 1986 (WS-B) sampling activities as noted in the PA.

To assure that quality data were obtained, care was taken to avoid contamination of samples and cross contamination between samples. A dedicated effort was made to ensure representative samples were collected. Specifically, this involved using clean sampling equipment to begin with and decontaminating equipment between holes, careful sample handling, appropriate sample preservation, and stringent laboratory requirements.

A stainless steel hand auger was used for soil sampling to avoid cross-contaminating the samples. The auger was decontaminated after each use by a four step process:

- o Trisodium phosphate wash;
- o Potable water rinse;
- o Distilled water rinse; and
- Allowing the auger to air dry.

Pertinent sample information was recorded in the site logbook. Soil samples were individually bagged, kept on ice, and shipped overnight to the laboratory. Sample labels were completed at the site and appropriate chain-of-custody procedures were followed. Chain-of-custody records are included in Appendix B. One upgradient, background sample was collected and the laboratory ran one lab blank for Quality Assurance/Quality Control measures.

TABLE 3-1 SUMMARY OF ANALYTICAL RESULTS

SAMPLE	LOCATION	<u>DEPTH</u>		ENTRATION ag/kg)
AV-P-1	In disposal pit, immediately south of containers	Surface Y	Methylene Chloride Acetone Chloroform	8.0 35 3.0
AV-P-2	In disposal pit, center	Surface	Acetone Chloroform Methylene Chloride	13 3.0 7.0
AV-P-3	South end of pit	Surface	Methylene Chloride Chloroform	6.0 3.0
AV-P-3B	Same as AV-P-3	1.5-2 feet	Methylene Chloride Acetone Chloroform	8.0 22 3.0
AV-P-4	Backfilled area	1-1.5 feet	Methylene Chloride Acetone 1,1 Dichloroether Chloroform Trichloroethene Benzene Toluene	7.0 16 ne 3.0 3.0 2.0 3.0 3.0
AV-RIN-1	Between trellis and Shed #1	1.5-2 feet	Methylene Chloride Acetone Chloroform Toluene	6.0 12 3.0 2.0
AV-RECP-1	Lowest point in shallow receptor rill east of pit	1.5-2 feet	Methylene Chloride Chloroform	6.0 3.0

TABLE 3-1 (CONT'D)

AV-D-1	Shallow drainage rill along east fence	1.5-2 feet	Methylene Chloride Acetone Chloroform	8.0 21 3.0
AV-B-1	Upgradient, background; 600 feet west of site	1.5-2 feet	Methylene Chloride Acetone Chloroform	6.0 15 2.0

3.4 SITE AREA RECONNAISSANCE

The Antelope Valley site and vicinity was thoroughly traversed during the site investigation. No evidence of hazards which pose an immediate or long term threat to the public or environment were encountered.

Air quality monitoring with the HNu and the radiometer showed no above background readings anywhere on site.

SECTION 4 WASTE TYPES AND QUANTITY

4.1 LOCATION

The active disposal pit was the only area identified during the site investigation to contain hazardous chemicals. active disposal pit is approximately 119 feet long with an additional backfilled section extending northward approximately 37 feet. No other disposal pits identified during the SI. The operating plan called for sumps to be constructed to collect water used to rinse the containers. No sumps were visibly identified during the SI. As noted, the waste containers occur only in the northern 20-25 feet of the pit.

4.2 FORM AND PHYSICAL STATE OF WASTE

No records of the quantity, types of containers or exact dates of disposal have been maintained on site. Containers vary from one gallon glass jars to five gallon plastic and steel buckets to 55 gallon plastic and steel drums. practices do not follow the operating procedure since many of the steel drums have not been crushed. The lack of identifiable sumps and over-all neglect of the sheds and rinse station area suggests the containers are not being rinsed on-site prior to disposal. Furthermore, approximately six glass one gallon jars labeled as $\underline{\text{Dibrom}}$ 8 Spray containing liquids were visibly identified in the pit. This occurrence is not in accordance with operating procedures and should be addressed. The soil at the backfilled section of the pit is settling around and into the containers posing the potential hazard of collapsing under site personnel.

4.3 QUANTITIES AND CONCENTRATIONS

Container disposal has been limited to approximately 60 feet of the northern end where over 100 containers are visible. The site has been in operation for 17 years. Except for the presence of alpha endosulfan during the PA, disposal practices do not appear to be contaminating the surrounding soils. However, samples have not been obtained at depth below the containers where contamination is most likely to occur.

4.4 EXISTING REGULATIONS

A review of specific guidelines or regulations governing "action levels" of contaminants in soil is unwarranted since all the results were "not detected". A review of regulations for owners and operators of facilities that dispose of hazardous waste in landfills (40 CFR 265.300) was conducted in conjunction with the potential hazardous waste identified in the glass containers. Depending upon amounts and contents in the glass containers, owners and operators of the Antelope Valley site may be required to conform to federal regulations governing disposal of hazardous waste in landfills.

4.5 CONTAINMENT AND ACCESSIBILITY

The disposal pit is not lined and is constructed within native soils at the site. The pit does not contain a leachate collection system and it has been inadequately backfilled with native soil. The fence and gate are sufficient for limiting access, but warning signs should be posted.

SECTION 5 EFFECTS ON HUMAN HEALTH AND THE ENVIRONMENT

5.1 SITE LAND USE, DEMOGRAPHICS, AND THE ENVIRONMENT

Both farming and ranching activities are conducted in Antelope Valley and there are about 30 active facilities in the general area. The nearest farming occurs approximately 1.5 miles east of the site; another occurs about 2 miles north. Cultivated crops in the area include alfalfa, mint, and garlic. Both sheep and cattle graze the area which has a carrying capacity of 15 surface acres per animal unit month. Livestock using the area are sheep of the Ellison Ranching Company and cattle of Joe and DeMar Dahl. No range or livestock improvements are involved in the pesticide site, but stock trails and droppings are found surrounding the site.

The general area accommodates coyotes, bobcats, badgers, rabbits, and a variety of rodents. It is also the habitat of partridges and a variety of song birds. The site is within the home range of some of the more important birds of prey. The rare and endangered prairie falcon has been observed near the site as well as the golden eagle. Cain Creek has no known fish life but about one mile east of the disposal site, Cain Creek floods a 40 acre waste area. This waste area contains aquatic plants such as cattails and rushes which in turn provides nesting and resting habitat for a limited number of waterfowl (Zieg, 1971).

There are no trees growing at or near the disposal site and there are no known mineral deposits. The site is not within an identified recreation area, and there are no known archeological, historical or cultural sites near the site (Zieg, 1971).

5.2 SURFACE WATER CHARACTERISTICS AND USE

The site is located in Antelope Valley within the Great Basin hydrologic region and the north-Great Basin sub-basin. Antelope Valley is drained by Cain Creek which flows northeasterly into the Reese River. The normally dry Cain Creek flows only after intense thundershowers, during periods of extremely rapid snow melt, and during late summer, when it carries irrigation water from the farms in Antelope Valley (Zieg, 1971). In normal years, the Reese River does not flow its complete length on the surface. Most of the annual precipitation during September to May contributes to the flow. Thunderstorms in summer cause flash floods, local erosion, and crop damage (Zieg, 1971).

The watershed of the immediate area near the disposal site is less than 500,000 square feet, thus contributing a minor portion of runoff into Cain Creek compared with the whole watershed. The water within the watershed is being used for the irrigation of crops, stockwater and domestic purposes. Cattle were observed drinking from Cain Creek approximately 0.25 mile north of the site. The nearest fields which could draw on surface water for irrigation are approximately 1.0 mile northeast of the site. Uplift of the surrounding highlands is geologically fairly recent producing unstable watershed. The geomorphology is young and large alluvial fans are evident at the mouths of drainages (Zieg, 1971).

No surface water was present on site. There are no surface water impoundments or reservoirs near the site (USGS, 1965).

5.3 GROUNDWATER CHARACTERISTICS AND USE

Groundwater was not encountered during the subsurface sampling activities. Therefore, the depth to the uppermost aquifer below the site has not been defined. Since bedrock occurs approximately 10 feet below the site, groundwater is probably not present in the alluvium except during periods of rapid precipitation. Groundwater flow is suspected to follow the surface water drainage flowing northeasterly into the Middle Reese River Valley.

Groundwater is used extensively for irrigation, domestic and stock uses. Zieg (1971) reports a depth-to-water of 20 feet immediately northwest of the site, dropping to 60 feet eastward toward Middle Reese River Valley. These depths were unsupported by a review of well records at the Nevada State Division of Water Resources. The Mt. Moses Quadrangle (USGS, 1961) shows a well approximately one mile east of the site in the SE 1/4 NW 1/4 SEC.17 (Figure 2-1), but no record of the well was found at the Nevada State Division of Water Resources. The nearest identified well is located in the SE 1/4 SE 1/4 SEC.17 (#24432), approximately 0.6 mile southeast of the site. The well was drilled to 245 feet and completed in the alluvium. Water occurs at around 115 feet and the water- bearing zone occurs between 110 and 225 feet. well occurs lateral to the suspected groundwater flow direction and should not be effected by site activities.

Four wells were identified in Section 8, approximately 1-2 miles northeast of the site. With the exception of well #30764 which was drilled to 455 feet total depth of each well was around 240 feet with water occurring around 110-130 feet.

The total well depth of around 240 feet with a water-bearing zone between 110 and 130 feet is consistant between wells in Section 8 and 17 and is therefore considered representative of the groundwater in the area. Well #23754 has a static water level around 42 feet which is the shallowest depth-to-water encountered in Sections 8 and 17. This well may be tapping a localized perched zone.

The analytical results of the SI indicate soil contamination is not present on site. Considering the low average annual rainfall, buffer distance of 0.6 mile to the nearest well and a distance of 1 mile to the nearest downgradient well the possibility of contamination from the site in downgradient wells is low.

5.4 SOILS AND GEOLOGY

Soil types identified in and around the Antelope Valley Site include calcisol, humic clay, sandy regosols, sierozen, solonchak, and solonetz. The outstanding characteristics of these soils is the weak expression of soil development. In some locations, soluble salts have accumulated and calcium carbonate is usually present throughout the profile (Zieg, 1971). Soils on-site consist of poorly sorted sands and gravels typical of subaerial alluvial fan deposits. Cobbles are volcanic tuffs probably derived from the volcanic rocks capping the Bridges Hills. Soils on site and in the vicinity appear to be aridisol or mineral soils of arid climates, and suborder orthids or aridisols without clay accumulation (Brady, 1974).

Most of Nevada, including Lander County, is in the Basin and Range Province, which is physiographically characterized by block mountains and desert basins. The mountains are comprised of Paleozoic basement rock and overlying Tertiary volcanics uplifted along high angle, generally north-south trending faults. Quarternary Basin deposition generally consists of broad alluvial fan, valley fill and evaporite deposits.

The site is located on alluvial fan deposits above the valley fill. As noted, bedrock occurs at approximately 10 feet and is comprised of volcanic tuff.

5.5 ASSESSMENT OF WASTE MIGRATION

Organochlorine pesticides, PCBs, volatile organic compounds and organophosphorous pesticides were not detected in samples collected during the site investigation. No surface water or groundwater was present and off-site migration or chemical compounds is not suspected.

5.6 ENVIRONMENTAL EFFECTS

No visible environmental effects such as stressed vegetation or animal mortality were apparent at the Antelope Valley site. Insects were observed crawling over the containers and numerous holes dug by burrowing rodents were noted on site. The effect continued disposal may have on wildlife in the area is unknown since current disposal practices are not monitored. The backfilled section of the trench poses a potential hazard of collapsing beneath site personnel.

SECTION 6 RESPONSIBLE PARTY INFORMATION

The Antelope Valley Pesticide Container Site has been leased by the Bureau of Land Management (BLM) to the Lander County Commissioners since October 1, 1971 under an indefinite Special Land Use Permit (SLUP) #N6-72-11. Lander County has been the sole operator. Specific contributors disposed of the containers under county management. There were no indications during the site investigation or in the files of any activities other than grazing prior to opening of the dumpsite. No potential off-site contributors are known or suspected.

SECTION 7 SUMMARY OF PAST RESPONSE ACTIVITIES

There have been no past attempts to remediate any perceived environmental problems at the Antelope Valley site with the exception of backfilling part of the pit. BLM conducted a Preliminary Assessment (PA) Study which included a limited amount of soil sampling. Analytical results of composite samples (one collected in January, another in October, 1986) indicated low concentrations of alpha endosulfan and chloroform in the October samples. occurrence of organic compounds can be explained by the addition of about five new drums of Malathion between the January and October sampling. The absence of organic compounds during the site investigation indicates the compounds volatilize easily and were probably only detected shortly after an episode of dumping.

SECTION 8 SITE CLASSIFICATION AND RANKING

The EPA Potential Hazardous Waste Site - Site Inspection Report (EPA Form 2070-13) for the Antelope Valley Pesticide Container Site is included in Appendix C. The Antelope Valley site has been ranked as a Class II site. has also been ranked using the Uncontrolled Hazardous Waste Site Ranking System (HRS). The HRS helps evaluate the relative potential of uncontrolled hazardous substance facilities to cause health or safety problems, or ecological or environmental damage. It is a means for applying uniform judgement regarding potential the hazards presented by the facility relative to other facilities. HRS assigns three scores to a hazardous facility:

- SM reflects the potential for harm to humans or the environment from migration of a hazardous substance away from the facility. Values are first assigned to the groundwater (S_{gw}) , surface water (S_{sw}) and air (S_A) migration routes which are used to calculate the total potential migration score (S_M) .
- o SFE reflects the potential for harm from fire and explosion with hazardous substances at the facility (i.e., no migration need be involved).
- SDC reflects the potential for harm from direct contact with hazardous substances at the facility (i.e., no migration need be involved).

The score for each hazard mode (migration, fire and explosion and direct contact) or route is obtained by considering a set of factors that characterize the potential of the facility to cause harm. Although high values for SFE and SDC may indicate potential health hazards at a facility, only the SM score is used for placing a site on the EPA National Priority List. The Antelope Valley site received the following scores:

 $S_{M} = 7.38$ $S_{FE} = N/A$ $S_{DC} = 0.28$

A score of 28.5 for S_M places a facility of EPA's National Priority List. The HRS data sheets for the Antelope Valley site are included in Appendix D.

SECTION 9 RECOMMENDED ACTIONS

The site investigation results of the Antelope Valley Pesticide Container Dump indicate no soil contamination exists. However, soil contamination was identified during the October, 1986 sampling for the PA, and liquid is present in several glass containers within the pit. The waste must therefore be considered hazardous and the potential for migration of chemical constituents to a shallow aquifer exists.

Groundwater and surface water were not encountered, but groundwater is used extensively down-gradient for domestic, irrigation and stock uses. Since disposal practices are not in accordance with proper containment protocols (RCRA Reqs.), WESTON recommends the following:

- o Remove all liquids;
- Post warning signs and inspect the perimeter fence periodically;
- Conduct site survey to delineate trench boundaries and identify possible sumps; and
- Close the existing disposal pit.

Several alternatives for the site survey and closure activities exist. The site survey is required mainly to identify possible sumps, but the trench boundaries should also be delineated. WESTON recommends contacting the operators of the dumpsite about rinsing procedures and conducting an Electromagnetic (EM) or Ground Penetrating Radar (GPR) survey to verify the existence of sumps.

WESTON recommends closure of the active disposal pit to restrict further waste accumulation. Closure activities should involve excavation of the containers and either transport and disposal at a permitted facility re-disposal on site in a lined pit. Transport and disposal is more desirable to mitigate the long-term liability. Sampling beneath the excavated waste pile should conducted to determine if contaminant migration occurred. All the containers should be crushed to minimize settling of the backfill material and to keep burrowing animals from nesting in the drums.

REFERENCES

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- Brady, N.C., 1974, The Nature and Properties of Soils: 8th Edition, MacMillan Publishing Company, Inc., New York, New York.
- Kershaw, B., 1988, Geologist, BLM Battle Mountain District, personal communication.
- Smith, H.C., 1970, Temporary Pesticide Container Disposal Sites: Cooperative Extention Services, University of Nevada, Reno, Nevada.
- U. S. Geological Survey, 1961, Mt. Moses Quadrangle, Nevada, 15 minute series.
- Van Nostrand Reinhold Company, 1981, <u>The Condensed Chemical Dictionary</u>, Revised by Hawley, G.G.: 10th Edition, Van Nostrand Reinhold Company Inc., New York, New York.
- Zieg, P.W., 1971, Draft Environmental Statement Proposed Pesticide Container Disposal Site, Lander County, Nevada: prepared by the Shoshone Resource Area, Battle Mountain District, Battle Mountain, Nevada.

APPENDIX A ANALYTICAL DATA

WESTEN

WESTON ANALYTICS VOLATILE ANALYTICAL DATA PACKAGE FOR BLM - ANTELOPE VALLEY

DATE RECEIVED: 05/21/88

CLIENT ID	RFW BATCH NUMBER	COLLECTION	EXTR./PREP.	ANALYSIS
AV-P-1 AV-P-2 AV-P-3 AV-P-3B AV-P-4 AV-RIN-1 AV-RECP-1 AV-D-1 AV-B-1 LAB QC:	8805-051-001 8805-051-002 8805-051-003 8805-051-004 8805-051-005 8805-051-006 8805-051-007 8805-051-008 8805-051-009	05/19/88 05/19/88 05/19/88 05/19/88 05/19/88 05/19/88 05/19/88 05/19/88	NA NA NA NA NA NA NA	06/02/88 06/02/88 06/02/88 06/02/88 06/02/88 06/02/88 06/02/88 06/02/88
BLANK 06/02	8805-051-0001BL	NA	NA	06/02/88

WESTON Analytical Laboratories

WESTON ANALYTICS GC/MS DATA SUMMARY

Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: 8805-051	Client: 8LM	- ANTELOPE VALLEY		Page:
Sample Information			*******	
RFN Batch ID: Customer ID: Matrix: Units: Dilution Factor:	8805-051-00018L 8LANK 06/02 Water UG/L 1	8805-051-001 AV-P-1 Soil UG/KG 1	8805-051-002 AV-P-2 Soil UG/KG I	8805-051-003 AV-P-3 Soil UG/KG
Surrogate Recovery			*	*
Toluene-d8: 8romofluorobenzene: 1,2-Dichloroethane-d4:	106 %	108 % 92 % 103 %	110 % 94 % 104 %	106 % 96 % 109 %
Analytes		***************************************		**
Chloromethane. Bromomethane. Vinyl Chloride. Chloroethane. Methylene Chloride. Acetone. Carbon Disulfide. 1,1-Dichloroethene. 1,1-Dichloroethane. Trans-1,2-Dichloroethene. Chloroform. 1,2-Dichloroethane. 2-Butanone. 1,1,1-Trichloroethane. Carbon Fetrachloride. Vinyl Acetate. Bromodichloromethane. 1,2-Dichloropropane. Trans-1,3-Dichloropropene. Trichloroethene. Dibromochloromethane.	10 U 10 U 10 U 5.0 J 10 U 5.0 U	13 U 13 U 13 U 13 U 13 U 8.0 8 35 6.4 U 6.4 U 6.4 U 3.0 JB 6.4 U 13 U 6.4 U	11 U 11 U 11 U 11 U 7.0 B 13 5.4 U 5.4 U 5.4 U 5.4 U 5.4 U 11 U 5.4 U	11 U 11 U 11 U 11 U 11 U 6.0 B 11 U 5.6 U 5.6 U 5.6 U 5.6 U 5.6 U 11 U 5.6 U 5.6 U 5.6 U 5.6 U 5.6 U 5.6 U
1,1,2-Trichloroethane 8enzene cis-1,3-Dichloropropene 2-Chloroethylvinylether 8romcform 4-Methyl-2-pentanone 2-Hexanone Tetrachloroethene	5.0 U 5.0 U 5.0 U 10 U 5.0 U 10 U 5.0 U	6.4 U 6.4 U 13 U 6.4 U 13 U 13 U	5.4 U 5.4 U 5.4 U 11 U 5.4 U 11 U 11 U 5.4 U	5.6 U 5.6 U 5.6 U 11 U 5.6 U 11 U 11 U 5.6 U
1.1,2,2-Tetrachloroethane Toluene Chlorobenzene Ethylbenzene Styrene Total Xylenes	5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U	6.4 U 6.4 U 6.4 U 6.4 U 6.4 U	5.4 U 5.4 U 5.4 U 5.4 U 5.4 U 5.4 U	5.6 U 5.6 U 5.6 U 5.6 U 5.6 U 5.6 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. 8=Present in blank. NS=Not spiked. %=Percent recovery.

MESTON ANALYTICS GC/MS DATA SUMMARY

Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

REW Agtch Number, GGAC ACT		IS SUBSTANCE LIST COMPO		
RFW Batch Number: 8805-051	Client: 8L	.M - ANTELOPE VALLEY	******************	Page:
Sample Information				
RFW Batch ID: Customer ID: Matrix: Units: Dilution Factor:	8805-051-004 AV-P-3B Soil UG/KG	8 805- 051-005 AY-P-4 Soil UG/KG I	8805-051-006 AV-RIN-1 Soil UG/KG 1	8805-051-007 AV-RECP-1 Soil UG/KG 1
Surrogate Recovery				
Toluene-d8: Bromofluorobenzene: 1,2-Dichloroethane-d4:	109 % 98 % 110 %	107 % 96 % 90 %	107 % 100 % 118 %	108 % 93 % 113 %
Analytes		***************************************		
Chloromethane. Bromomethane. Yinyl Chloride. Chloroethane. Methylene Chloride. Acetone. Carbon Disulfide. 1,1-Dichloroethane. Trans-1,2-Dichloroethane. Chloroform. 1,2-Dichloroethane. 2-Butanone. 1,1-Trichloroethane. Carbon Tetrachloride. Vinyl Acetate. Bromodichloromethane. 1,2-Dichloropropane. Trans-1,3-Dichloropropene. Trichloroethene.	13 U 13 U 8.0 B 22 6.3 U 6.3 U 6.3 U 3.0 JB 6.3 U 13 U 6.3 U	11 U 11 U 11 U 11 U 11 U 7.0 B 16 5.7 U 3.0 J 5.7 U 3.0 J8 5.7 U 11 U 5.7 U 5.7 U 5.7 U 5.7 U 2.0 J	11 U 11 U 11 U 11 U 11 U 6.0 8 12 5.6 U	10 U 10 U 10 U 10 U 6.0 8 10 U 5.2 U 5.2 U 3.0 J8 5.2 U 10 U 5.2 U 5.2 U 5.2 U 5.2 U 5.2 U 5.2 U
Dibromochloromethane	6.3 U 6.3 U 6.3 U 6.3 U 6.3 U 6.3 U 13 U 6.3 U 6.3 U 6.3 U 6.3 U 6.3 U 6.3 U	2.0 J 5.7 U 5.7 U 3.0 J 5.7 U 11 U 5.7 U 5.7 U 5.7 U 5.7 U 5.7 U 5.7 U	5.6 U 5.6 U 5.6 U 5.6 U 11 U 5.6 U 11 U 5.6 U 2.0 J 5.6 U 5.6 U	5.2 U 5.2 U 5.2 U 5.2 U 10 U 5.2 U 10 U 5.2 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.

WESTON ANALYTICS GC/MS DATA SUMMARY

Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	TANALIO HINENKUUU	S SUBSTANCE LIST COMPOUNDS	
RFW Batch Number: 8805-051	Client: BL	M - ANTELOPE VALLEY	Page: 3
Sample Information	***********		
RFW Batch ID: Customer ID: Matrix: Units: Dilution Factor:	8805-051-008 AV-D-1 S011 UG/KG 1	8805-051-009 AV-B-1 Soil UG/KG 1	
Surrogate Recovery			***************************************
Toluene-d8: Bromofluorobenzene: 1,2-Dichloroethane-d4:	98 %	107 % 95 % 116 %	
Analytes	***		
Chloromethane. Bromomethane. Vinyl Chloride. Chloroethane. Methylene Chloride. Acetone. Carbon Disulfide. 1,1-Dichloroethane. Irans-1,2-Dichloroethene. Chloroform. 1,2-Dichloroethane. 2-Butanone. 1,1-Trichloroethane. Carbon Tetrachloride. Vinyl Acetate. Bromodichloromethane. 1,2-Dichloropropane. Frans-1,3-Dichloropropene. Urichloroethene. Dibromochloromethane.	14 U 14 U 14 U 8.0 B 21 7.0 U 7.0 U 7.0 U 7.0 U 3.0 JB 7.0 U 14 U 7.0 U	11 U 11 U 11 U 11 U 6.0 8 15 5.4 U 5.4 U 5.4 U 2.0 J8 5.4 U 11 U 5.4 U	
1,1,2-Trichloroethane Genzene 2-Chloroethylvinylether. Gromoform 4-Methyl-2-pentanone C-Hexanone (etrachloroethene 1,1,2,2-Tetrachloroethane Chlorobenzene Chlybenzene Styrene (otal Xylenes	7.0 U 7.0 U 7.0 U 14 U 7.0 U 14 U 7.0 U	5.4 U 5.4 U 5.4 U 11 U 5.4 U 11 U 5.4 U	

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recovery.



Sample ID: Blank QA88117

Sampled: Matrix: SOIL

Received: NA RFW Job #: 3805s051

	==========		========				
ORGANOCHLORINE	E PESTICIDES/	PCB'S	EPA 8080	ORGANOPHOSP	HOROUS PESTICIO	ES	EPA 8140
	5/25/88 5/31/88	Ext Fact: Dil Fact:	=	Extracted:	05/26/88	Ext Fact:	
Confirmed: NO		Blank ID:		Analyzea: Confirmed:	06/03/88 NC	Dil Fact: Blank ID:	
RFW Lab #: NA	1			RFW Lab #:	NA		Det Limit
Compound		(ppm) mg/Kg	Sample mg/Kg	: Compound		(p pm) m g/ Kg	Sample mg/Kg
BHC-alpha				•	=======================================		
BHC-beta		Ü					0.010
SHC-delta		ij	0.003	Dimethoate.	/	Ü	0.010
SHC-gamma : Lin	rdane)	U U			(Delnav)		0.050
Heptachlor	dane	U			(0.0		0.015
Aldrin	**********	U			(DiSyston)		0.015
Heptachior Spo	ny ida	Ü	0.003		• • • • • • • • • • • • • • • •		0.015
Endosulfan I	// Ide	U	0.003	Metnyl Para	thion	U	0.015
Dieldrin	**********	U	0.003	Malathion		U	0.020
4,4'-DDE	•••••	U	0.005	(Ethyl Parat	hion	U	0.020
Endrin		Ü	0.005	DEF	• • • • • • • • • • • • • • • •	Ü	0.025
4,4'-DDD		U	0.005	Ethion		U	0.025
Endosulfan II.	• • • • • • • • • • • • • • • • • • • •	IJ	0.005	lhionazin		U	0.025
4.4'-DDT	• • • • • • • • • • • • • • • • • • • •	IJ	0.005	¦⊦amphur	• • • • • • • • • • • • • •	U	0.100
Endrin Aldehyd	······	Ü		AZINPhos-me	thyl (Guthion).	υ	0.100
Endosulfan Sul	fato	U	0.005	:			
Endrin Ketone.	race	IJ	0.005	1			
Methoxychlor	* * * * * * * * * * * * * * * * * * * *	IJ	0.005	1			
Chlordane-gamm		IJ	0.025	:			
Chlordane-alph	a	U	0.025	!			
Toxaphene	la	U	0.025	: !			
Araclar 1016		ij	0.050	1			
Arcolor 1016	• • • • • • • • • • • • •	U	0.025	1			
Aroclor 1221	• • • • • • • • • • • •	Ų	0.025	i I			
Aroclor 1232	• • • • • • • • • • • •	U	0.025	! !			
Aroclor 1242	• • • • • • • • • • •	IJ	0.025	! !			
Aroclor 1248	• • • • • • • • • • •	_	0.025	1 1			
Aroclar 1254	• • • • • • • • • • • • •	U	0.050				
Aroclor 1260	• • • • • • • • • • • • • • • • • • • •	U	0.050				
			1				
			!				

U = Compound analyzed for but not detected All values are corrected for % moisture

Approved:

Declan Cowley



Sample ID: AV-P-1

Sampled: 05/19/88 Matrix: SOIL

Received: 05/21/88 % Moist: 12 RFW Job #: 3805s051

ORGANOCHLORINE PESTICIDES/	== === POB'S	EPA 8080	ORGANOPHOSPHOROUS PESTICIO	:======= :ES	EPA 8140
Analyzea: 05/31/88	Ext Fact: Dil Fact: Blank ID:	1		Ext Fact: Dil Fact: Blank ID:	1
RFW Lab #: 001 Compound ===================================	(ppm) ma/Ka	Sample ma/Ka	RFW Lab #: 001 Compound	(ppm) mg/Kg	Det Limit Sample mg/Kg
BHC-alpha. BHC-beta. BHC-delta. BHC-gamma (Lindane). Heptachlor. Aldrin. Heptachlor Epoxide. Endosulfan I. Dieldrin. 4,4'-DDE. Endrin. 4,4'-DDT. Endrin Aldehyde. Endosulfan Sulfate. Endrin Ketone. Metnoxychlor. Chlordane-gamma. Chlordane-alpha. Toxaphene. Aroclor 1212. Aroclor 1242. Aroclor 1248. Aroclor 1254. Aroclor 1254. Aroclor 1254. Aroclor 1260.		0.003 0.003 0.003 0.003 0.003 0.003 0.006 0.006 0.006	Phorate. Dimethoate. Dioxathion (Delnav). Diazinon. Disulfcton (DiSyston). Demeton. Methyl Parathion. Sthyl Parathion. DEF. Ethion. Thionazin. Famphur. Azinphos-methyl (Guthion).		0.011 0.057 0.017 0.017 0.017 0.017 0.023 0.023 0.028 0.028 0.028 0.114 0.114

U = Compound analyzed for but not detected Approved: All values are corrected for % moisture

Declan Cowley



Sample ID: AV-P-2

Sampled: 05/19/88 Matrix: SOIL

ORGANOCHLORINE PESTICIDES.			ORGANOPHOSPHOROUS PESTICIO		EPA 8140
Extracted: 05/26/88	Ext Fact	_	Extracted: 05/26/88	Ext Fact:	3
Analyzed: 05/31/88	Dil Fact		: Analyzed: 06/03/88	Dil Fact:	1
Confirmed: NC	Blank ID	:QA88117	Confirmed: NC	Blank ID:	QA88117
RFW Lab #: 002	Results	Det Limit	RFW Lab #: 002	Results	Det Limit
0.55	(ppm)	Sample	t 1	(ppm)	Sample
Compound	mg/Kg	mg/Kg	Compound	mg/Kg	mg/Kg
BHC-aìpha	. !!		=====================================		
BHC-beta	. 11		Dimethoate		0.012
BHC-delta	. U		Dioxathion (Delnay)		0.012
BHC-gamma (Lindane)	. 11				0.059
Heptachlor	. U		Diazinon		0.018
Aldrin	. U		Disulfoton (DiSyston)		0.018
Heptachlor Epoxide	. U		Demeton		0.018
Endosulfan I	. บ		Methyl Parathion		0.018
Dieldrin	. U	0.003	Malathion	U	0.024
4.4'-DDE		0.006	Ethyl Parathion	U	0.024
Endrin	· U	0.006	DEF	บ	0.029
4,4'-DDD	. U		Ethion		0.029
Endosulfan II	· U		Thionazin		0.029
4.4'-DDT	U	0.006	Famphur	IJ	0.118
Endrin Aldehyde	Ų	0.006	Azinphos-methyl (Guthion).	U	0.118
Endosulfan Sulfate		0.006	† 1		
Endrin Votone	=	0.006	T 1		
Endrin Ketone	U	0.006	l !		
Methoxychlor	Ų	0.029	((
Chlordane-gamma	U	0.029	! !		
Chlordane-alpha	U	0.029] }		
Toxaphene	U	0.059	1		
Aroclor 1016	U	0.029	1		
Arocior 1221	U	0.029			
Aroclor 1232	U	0.029			
Aroclor 1242	Ū	0.029			
Aroclor 1248	0	0.029			
Aroclor 1254	Ū	0.059			
Aroclor 1260	ii.	0.059			
=======================================	========	; ; ; ;			

U = Compound analyzed for but not detected All values are corrected for % moisture

Approved:

Declan Cowley

WEJTEN

Client: BLM Antelope Valley

Sample ID: AV-P-3

Sampled: 05/19/88 Matrix: SOIL

========			76 IND 13C.	1 1	RFW JOD #:	3 503503 I	
ORGANOCHLOR	(NE PESTICIDES	/PCB'S	EPA 8080	ORGANOPHOSE	PHOROUS PESTICI	======= DES	EPA 8140
Extracted: Analyzed: Confirmed:	05/26/88 05/31/88 NC	Ext Fact: Dil Fact: Blank ID:	1	Extracted: Analyzed: Confirmed:	05/26/88 06/03/88 NC	Ext Fact: Dil Fact: Blank ID:	1
Compound	003	(ppm)	Sample mg/kg	RFW Lab #:	003	Results (ppm) mg/Kg	Det Limit Sample mg/Kg
BHC-alpha BHC-beta BHC-beta BHC-delta BHC-gamma (L Heptachlor. Aldrin Heptachlor E Endosulfan I Dieldrin 4,4'-DDE Endrin Aldeh Endosulfan I 4,4'-DDT Endrin Aldeh Endosulfan S Endrin Keton Methoxychlor Chlordane-ga Chlordane-al Toxaphene Aroclor 1221 Aroclor 1232 Aroclor 1248 Aroclor 1254	indane)		0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.006 0.006	Phorate Dimethoate. Dioxathion Diazinon Disulfoton Demeton Methyl Para Malathion Ethyl Parat DEF Ethion Thionazin Famphur	(Delnav) (DiSyston) thion hion thyl (Guthion).	. U	0.011 0.011 0.056 0.017 0.017 0.017 0.022 0.022 0.028 0.028 0.028 0.112 0.112
			1 1 1 8		<u></u>	· · ·	

U = Compound analyzed for but not detected All values are corrected for % moisture

Approved:

Declan Cowley



Sample ID: AV-P-3B

Sampled: 05/19/88 Matrix: SOIL

ORGANOCHLORINE PESTICIDES/	FUD 3	CPA SUSU	ORGANOPHOSPHOROUS PESTICI	DES	EPA 8140
	Ext Fact:		Extracted: 05/26/88	Ext Fact:	3
	Dil Fact:		; Analyzed: 06/03/88	Dil Fact:	1
Confirmed: NC	Blank ID:	QA88117	Confirmed: NC	Blank ID:	QA88117
RFW Lab #: 004		Det Limit	RFW Lab #: 004	Results	Det Limit
0.000	(ppm)	Sample	1	(ppm)	Sample
Compound ====================================	mg/Kg	mg/Kg	Compound	mg/Kg	mg/Kg
BHC-alpha		0.003			0.012
BHC-beta	11	0.003	Dimethoate		0.012
BHC-delta	บั	0.003	Dioxathion (Delnav)		0.012
BHC-gamma (Lindane)	Ū	0.003	Diazinon		0.017
Heptachlor	Ü	0.003	Disulfoton (DiSyston)		0.017
Aldrin	1.1	0.003	Demeton		0.017
Heptachlor Epoxide	Ū	0.003	Methyl Parathion		0.017
Endosulfan I	}	0.003	Malathion		0.023
Dieldrin	IJ	0.006	Ethyl Parathion	. U	0.023
4,4'-DDE	U	0.006	DEF		0.029
Endrin	П	0.006	Ethion		0.029
4,4'-DDD	П	0.006	Thionazin		0.029
Endosulfan II	U	0.006	Famphur		0.029
1,4'-DDT	11	0.006	Azinphos-methyl (Guthion)		0.116
Endrin Aldehyde	11	0.006	i desirion	. •	0.110
Endosulfan Sulfate	U	0.006	! !		
Indrin Ketone	U	0.006			
<pre>!ethoxychlor</pre>	Ü	0.029	1		
Chlordane-gamma	П	0.029	1 		
Chlordane-alpha	IJ	0.029	1		
「oxaphene	Ü	0.058) 		•
Aroclor 1016	IJ	0.029	1		
Aroclor 1221	IJ	0.029	z *		
Aroclor 1232	Ü	0.029) 1		
Aroclor 1242	Ŭ	0.029	1 		
Aroclor 1248	Ũ	0.029	I I		
Aroclor 1254	Ū	0.058	1 1		
Aroclor 1260	Ū	0.058	1 		

U = Compound analyzed for but not detected All values are corrected for % moisture

Approved:

Declan Cowley

WESTEN

Client: BLM Antelope Valley

Sample ID: AV-P-4

Sampled: 05/19/88 Matrix: SOIL

	=======	========			=========
CRGANOCHLORINE PESTICIDES/	PCB'S	EPA 8080	ORGANOPHOSPHOROUS PESTICIE)ES	EPA 8140
Extracted: 05/26/88	Ext Fact:	3	 Extracted: 05/26/88	Ext Fact:	3
	Dil Fact:			Dil Fact:	
	Blank ID:		Confirmed: NC	Blank ID:	
				DIGIN ID.	THE THE TABLE
RFW Lab #: 005			RFW Lab #: 005	Results	Det Limit
	(ppm)	Sample	1	(ppm)	Sample
Compound	mg/Kg	mg/Kg	Compound	mg/Kg	mg/Kg
					========
BHC-alpha	U	0.003	¦Phorate		0.011
BHC-beta	บ	0.003	Dimethoate		0.011
BHC-delta		0.003	Dioxathion (Delnav)		0.057
BHC-gamma (Lindane)		0.003	Diazinon	IJ	0.017
Heptachlor	U	0.003	Disulfoton (DiSyston)	U	0.017
Aldrin	U	0.003	Demeton	U	0.017
Heptachlor Epoxide	U	0.003	Methyl Parathion	U	0.017
Endosulfan I	ប		Malathion		0.023
Dieldrin	Ų		Ethyl Parathion		0.023
4,4'-DDE	U		DEF		0.028
¦Endrin	U		Ethion		0.028
{4,4'-DDD	U		Thionazin		0.028
¦Endosulfan II	U		Famphur		0.114
4,4'-DDT	U	0.006	Azinphos-methyl (Guthion).	IJ	0.114
Endrin Aldehyde	U	0.006		_	
Endosulfan Sulfate	U	0.006	•		
Endrin Ketone	U	0.006	1		
Methoxychlor	U	0.028			
¦Ch1ordane-gamma	U	0.028			
Chlordane-alpha	U	0.028			
¦Toxaphene	Ú	0.057	1		
Aroclor 1016	U	0.028	1		
Aroclor 1221	U	0.028	: 		1
Aroclor 1232	U	0.028	1		
Aroclor 1242	U	0.028	; [i
Aroclor 1248	Ü	0.028			
Aroclor 1254	Ü	0.057	1		;
Aroclor 1260	Ū	0.057			
1	J	0.007	1 1		
1			1		i 1
i t			<u>.</u>		¦
1			1) !
1			1		1
			•		ì

U = Compound analyzed for but not detected All values are corrected for % moisture

Approved:

Declan Cowley



Sample ID: AV-RIN-1

Sampled: 05/19/88 Matrix: SOIL Received: 05/21/88 % Moist: 11

ORGANOCHLORINE PESTICIDES,	/PCB'S	EPA 8080	ORGANOPHOSPHOROUS PESTICI	DES	EPA 8140
Extracted: 05/26/88	Ext Fact:	_	Extracted: 05/26/88	Ext Fact:	: 3
Analyzed: 05/31/88	Dil Fact:		Analyzed: 06/03/88	Dil Fact:	: 1
Confirmed: NC	Blank ID:	QA88117	Confirmed: NC	Blank ID:	:QA88117
RFW Lab #: 006	Results	Det Limit	RFW Lab #: 006	Results	Det Limit
0	(ppm)	Sample	1 1	(ppm)	Sample
Compound	mg/Kg	mg/Kg	Compound	ma/Ka	ma/Ka
BHC-alpha		0.003	,		
BHC-beta	Ü	0.003	! Phorate		0.011
BHC-delta	. U	0.003	Dimethoate		0.011
BHC-gamma (Lindane)	U.		Dioxathion (Delnav)		0.056
Heptachlor	11		Diazinon. (Dicyster)	. U	0.017
Aldrin	U	0.003	Disulfoton (DiSyston)	. U	0.017
deptachlor Epoxide	U		Demeton		0.017
Endosulfan I	U		Methyl Parathion		0.017
Dieldrin	Ü		Malathion		0.022
4,4'-DDE	U		Ethyl Parathion		0.022
ndrin	U		DEF	. U	0.028
4,4'-DDD	Ü	0.006	Ethion	. U	0.028
ndosulfan II	Ü	0.006	Thionazin	. U	0.028
4,4'-DDT	U	0.006	Famphur	. U	0.112
ndrin Aldehyde	U		Azinphos-methyl (Guthion).	. U	0.112
Endosulfan Sulfate		0.006	!		
Endrin Ketone	U	0.006	• !		
Methoxychlor	U	0.006			
Chlordane-gamma	U	0.028			
Chlordane-alpha	Ų	0.028			
oxaphene	U	0.028			
Aroclor 1016	U	0.056			
Aroclor 1221	U	0.028			
Aroclor 1232	U	0.028			
Aroclor 1242	U	0.028			
Aroclor 1242		0.028			
Aroclor 1254	•	0.028			
Aroclor 1260	U	0.056			
	U	0.056			

U = Compound analyzed for but not detected All values are corrected for % moisture

Approved:

Declan Cowley



Sample ID: AV-RECP-1

Sampled: 05/19/88 Matrix: SOIL Received: 05/21/88

% Moist: 4 RFW Job #: 3805s051

ORGANOCHLORINE PESTICIDES,	PCB'S	EPA 8080	ORGANOPHOSPI	HOROUS PESTICI	DES	EPA 814
Extracted: 05/26/88	Ext Fact	3	Extracted:	05/26/88	Ext Fact	: 3
Analyzed: 05/31/88	Dil Fact:	: 10	Analyzed:	06/03/88	Dil Fact	
Confirmed: NC	Blank ID	:QA88117	Confirmed:	NC	Blank ID	
RFW Lab #: 007	Results	Det Limit	RFW Lab #:	007	Results	Det Limi:
_	(mqq)	Sample			(ppm)	Sample
Compound	mg ∕Kg	mg/Kg	Compound		mg/Kg	mg/Kg
BHC-alpha		0.026		=== == ===============================		
BHC-beta	U	0.026		• • • • • • • • • • • • • • • • • • • •		0.010
BHC-delta	U			(Dolnou)		0.010
BHC-gamma (Lindane)	U			(Delnav)		0.052
Heptachlor	Ü			(DiCycton)		0.016
Aldrin	U			(DiSyston)		0.016
Heptachlor Epoxide	U		Mathyl Dama	hion	. U	0.016
Endosulfan I	U	0.026	imethyl Parat Malathian	./// 10/11	. U	0.016
Dieldrin	U		,Maialiiioii ¹ Ethyl Donotk		. U	0.021
4,4'-DDE	U	0.052	ictily i Paratr Ince	nion	. U	0.021
Endrin	U		;UEF Ethion	• • • • • • • • • • • • • • • • • • • •	. บ	0.026
4,4'-DDD	Ü		Ethlon Thionosin		. U	0.026
Endosulfan II	Ü					0.026 0.104
4,4'-DDT	11	0.052		hyl (Guthion).		
Endrin Aldehyde	Ŭ	0.052	i va mbilos-lile (my: (duchion).	. 0	0.104
Endosulfan Sulfate	! !	0.052	l I			
Endrin Ketone	11	0.052	! !			
Methoxychlor	Ü	0.260	l \$			
Chlordane-gamma	Ü	0.260	 			
Chlordane-alpha	Ü	0.260	1			
Toxaphene	Ü	0.521	\$ 			
Aroclor 1016	11	0.260				
Aroclor 1221	LE	0.260				
Araclar 1232	Ü	0.260				
Aroclor 1242	U	0.260	!			
Aroclor 1248	Ü	0.260	1			
Aroclor 1254	บ	0.521	†			
Aroclor 1260	11	0.521				

U = Compound analyzed for but not detected All values are corrected for % moisture

Approved:

Declan Cowley



Sample ID: AV-D-1

Sampled: 05/19/88 Received: 05/21/88

Matrix: SOIL % Moist: 28

RFW Job #: 8805s051

	=========		/ MOISC.	20	KEM JOD #1	50008001	
ORGANOCHLORI	NE PESTICIDES,	/PCB'S	EPA 8080	ORGANOPHOSP	PHOROUS PESTICI	======= DES	EPA 8140
	05/26/88 05/31/88	Ext Fact:		Extracted:	05/26/88	Ext Fact:	
	NC	Dil Fact: Blank ID:		Analyzed: Confirmed:	06/03/88 NC	Dil Fact: Blank ID:	
RFW Lab #:	008			RFW Lab #:	008		Det Limit
Compound	=======================================	(ppm) mg/Kg	Sample mg/Kg	Compound		(ppm) mg/Kg	Sample mg/Kg
BHC-alpha		. υ	0.003	•			0.014
BHC-beta	***********	. U	0.003				0.014
BHC-delta	*******	. Ū	0.003		(Delnav)		0.069
BHC-gamma (L	indane)	. U	0.003		······································		0.009
Heptachlor		Ū	0.003		(DiSyston)		0.021
Aldrin			0.003		······································		0.021
Heptachlor E	poxide	Ü	0.003		thion		0.021
Endosulfan I		. 0	0.003		***************************************		0.028
Dieldrin	*******	Ū	0.003		hion		0.028
4,4'-DDE	********	Ü	0.007				0.028
Endrin	*********	Ū	0.007	1 Ethion	•••••••	. U	0.035
4,4'-DDD		Ü	0.007				
Endosulfan I	I	Ü	0.007		• • • • • • • • • • • • • • • • • • • •		0.035
4,4'-DDT	*********	Ü	0.007		+h (Outhing)		0.139
Endrin Aldeh	yde	Ü	0.007	TAZ HIDNOS-ME	thyl (Guthion)	. 0	0.139
Endosulfan S	ulfate	Ü	0.007	ř			
Endrin Keton	e	Ü	0.007	1			
Methoxychlor		U		Í I			
Chlordane-ga	mma	U	0.035	1			
Chlordane-al	pha	U	0.035	1			
Toxanhene	••••••		0.035	1			
Aroclar 1016	• • • • • • • • • • • • • • •	Ų	0.069				
Aroclor 1221	************		0.035	1			
Aroclor 1232	• • • • • • • • • • • • • • •		0.035				
Aroclor 1242	• • • • • • • • • • • • • • • • • • •	U	0.035				
Aroclor 1242	• • • • • • • • • • • • • • • • • • •	U	0.035	<u>.</u>			į
Aroclor 1254	• • • • • • • • • • • • • • • • • •		0.035				!
	• • • • • • • • • • • • • • • • • • • •	-	0.069	! !			1
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				! ! !			
				1 1			į

U = Compound analyzed for but not detected All values are corrected for % moisture

Approved:

Declan Cowley

Sample ID: AV-B-1

Sampled: 05/19/88 Matrix: SOIL Received: 05/21/88 % Moist: 6.8

RFW Job #: 8805s051

ORGANOCHLORINE PESTICIDES, Extracted: 05/26/88			ORGANOPHOSPHOROUS PESTICIE		EPA 8140
41	Ext Fact:	•	Extracted: 05/26/88	Ext Fact:	: 3
	Dil Fact		Analyzed: 06/03/88	Dil Fact:	: 1
Confirmed: NC 	Blank ID:	QA88117	Confirmed: NC	Blank ID:	:QA88117
RFW Lab #: 009	Results	Det Limit	RFW Lab #: 009	Results	Det Limit
0	(ppm)	Sample) ;	(ppm)	Sample
Compound	mg/Kg	mg/Kg	Compound	mg/Kg	mg/Kg
BHC-alpha		========	=====================================		
BHC-beta	Ü	0.003	Phorate	U	0.011
BHC-delta	U	0.003	Dimethoate		0.011
BHC-gamma (Lindane)	U	0.003	Dioxathion (Delnav)	U	0.054
Heptachlor	11	0.003 0.003	Diazinon	U	0.016
Aldrin.	11		Disulfoton (DiSyston)	U	0.016
Heptachlor Epoxide	11		Demeton	U	0.016
Endosultan I	11		Methyl Parathion	U	0.016
Dieldrin	13		Malathion	U	0.021
1,4'-DDE	11		Ethyl Parathion	U	0.021
ndrin	11		DEF	U	0.027
1,4'-UDD	- 11		Ethion	U	0.027
ndosultan II	71		¦Thionazin ¦Famphur	U	0.027
1,4'-DDT	1 1		Azinphos-methyl (Guthion).		0.107
ndrin Aldehyde	11	0.005	i	U	0.107
ndosulfan Sulfate	11	0.005	! 1		
ndrin Ketone	11	0.005	1 1		
Methoxychlor	- 11	0.027	1 1		
Chlordane-gamma.	11	0.027	i !		
Chiordane-alpha	!1	0.027			
oxaphene	11	0.054			
roclor 1016	- 11	0.027			
roclor 1221	11	0.027			
roclor 1232	11	0.027			
roclor 1242	11	0.027			
roclor 1248	U	0.027			
roclor 1254	U	0.054			
roclor 1260	U	0.054			
		! ! ! !			
		s 8 9			

U = Compound analyzed for but not detected All values are corrected for % moisture

Approved:

Declan Cowley Organic Section Mahager APPENDIX B

CHAIN-OF-CUSTODY



CHAIN OF CUSTODY RECORD

SAMPLERS: (Signatur	a) Caraty	14.15	SHIPPING INFORMATION	
"多次要选择的企业,这是一个工具。"	340-2610)	Location Rocal NJ	
SHIP TO:	-(7-16)		Shipper	
		المريم ت	Address	
	0A 0501	C) Property		
			Date Shipped 5-70-X	<u> </u>
ATTENTION	a Ha.O.		Shipment Service	
Phone Ne	1917-30	4	Airbill No. 1371607934	
Relinquished by: (Sig	nature)		Cooler No.	
	77 /2	-	Received by: (Signature)	Date/Time
Relinquished by: (Sig	nature)		Received by: (Signature)	Date/Time
Relinquished by: (Sig.			Received by: (Signature)	Date/Time
Relinquished by: (Sign	nature)		Received for laboratory by: (Signature)	Date/Time
7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			William C. Florer	56/197 100
Analysis labora	atory should comple	te "sample co	nd. upon receipt" section below, sign and return copy	to Shipper
Sample No. O		Date Sampled	Analysis Requested	Sample Cond. Upon Receipt
AV-P-1 1-80	ANTIVAL.	5-19-28	SPA 8240 SIM TAROWIPER	Garage 10.
AV-P-2 1-8	A 12- VAL	E-19- Et	SPA 8240 514 (508W/PE)	;
Ay - P-3 1-87	A DT. VAL	5-19->8	SDA RAYO FIL SOME JOBS	
1v-P-3B 1-86	ALT VAL	19-XX	SPA EZYO TILL TORDEPIR	
1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	1 (14) (14) C	<u> ا </u>		
WY-CIN-1 1-	ANT WA	5-17-46		
N-REP- 1-KO	An VAL	5-17-88	EPA 8240 YIMONORUWARD	
My-D-1 1-2	MAC VAL	5-17-88	1 EPA BAYU. SIYU DOBU WICKE	: k
AJ-8=7-1-200	- <u> </u>	- ENC 2-17-52	SPA BOND KILL SUNGLACES	
	-			
-		`		
			·	
Remarks:				
ā:	7 - 3-67	7		

APPENDIX C EPA FORM FOR SITE INVESTIGATION

©EPΔ

POTENTIAL HAZARDOUS WASTE SITE

I. IDENT	IFICATION
OI STATE	02 SITE NUMBER
N 17	2878_03_07

WEFA	PART 1 · Si	SITE INSPEC ITE LOCATION AN	TION R	EPORT	***	OI STATE NV	2878-0	
II. SITE NAME AND LOC	CATION		DINSPE	CHON INFORM	MATION			
OI SITE NAME ILegal common	ey Pesticide		02 5186	ET, ROUTE NO , OR S	DECREE LOCATION	ne wat e e		
Ancerope vall	ley Pesticide	Container	J. J. N.	ET. NOUTE NO , OR S	PECIFIC LOCATION	DENIFIER		
<u>Disposal Site</u>	<u> </u>		Appr	OX 5 5 1	niles W.	Route	305	
			04 STATE	02 SIN CODE	06 COUNTY			A OR COMO
			NV		Tandan	C	COOE	DIST
09 COORDINATES	•	10 TYPE OF OWNERS			<u> Lander</u>	Count	у	
40 02 30 N	11 7 14 30 W		. Ø B FE	DERAL	D.C. STATE DI	D. COUNTY 3. UNKNOY	☐ E. MUNICI	PAL
III. INSPECTION INFORT								
	OZ SITE STATUS	03 YEARS OF OPERA	TION			•		
88, 19ر <u>5</u>	XCX ACTIVE	j	10/7	11 Prese	nt I	INKNOWN		
MONTH DAY YEAR O4 AGENCY PERFORMING INS	C INACTIVE	BEC	MANNG YE			,, w		
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O ALEPA O BLEPA C	CONTRACTOR		□см	UNICIPAL DD. N	ALINICIPAL CONTR	ACTOR		
DE STATE DE STATI	E CONTRACTOR	(Name of Sum)		THER BLM C			(Name of firm	,
05 CHIEF INSPECTOR		(Name of fem)	. 2000	INCH DITT C	(Seecde)	<u>. </u>		
		OG TITLE			07 ORGANIZA	ION	08 TELEPHON	E NO
Robert Muelle	r	Pic14)	V				818340	2610
Robert Muelle		Field 1	nanag	er	Westo			
					11 ORGANIZAT	ION	12 TELEPHON	
Jeff Bannon		Geolog:	ist		Westo	n	818340	-2610
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13 SITE REPRESENTATIVES IN	TERVIEWED	14 TITLE	1	SADORESSBLM	Pattlena		16 TELEPHON	E NO
Byard Kersh	aw	Geologi				untar	140010	
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□ PERMISSION □ WARRANT	0900	Hot/par	tiall	ly cloudy				
								}
IV. INFORMATION AVAIL	ABLE FROM							
DI CONTACT		02 OF IAgency Organi	HON			70	OJ TELEPHONE N	-
Larry Stewar	: d	Bureau	of Ta	and Manage	.m	1	()	
04 PERSON RESPONSIBLE FO		05 AGENCY	_	_		i i		
		US AGENCT	DE ORGA	ANIZATION	07 TELEPHONE N	. c	DA DATE	1
Robert Muell	er	j	1		1		$\frac{7}{15}$	88
PAROPH 2010 11 17 41	- C T		Wes	ston	818/340-	2610	MONTH DAY	YEAR

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE | 02 SITE HUMBER | NV | 2878-03-07

				E INFORMATION	d	NV 1207	0-03-07
II. WASTES	TATES, QUANTITIES, AN	O CHARACTER	ISTICS				
01 PHYSICAL S	TATES (Check of that souly)	02 WASTE QUANT	ITY AT SITE	03 WASTE CHARACT	ERISTICS (Check of the	10P*1	
C D OTHER			XXX 10XIC LEE SOL LEE SOL LEE CORROSIVE LEE INFE LEC RADIOACTIVE LE QUELLE LE DEPENSISTENT LE HIGHE		LUBLE III HIGHLY VOLATILE ECTIOUS (J EXPLOSIVE MMABLE II K REACTIVE HIABLE II INCOMPATIBLE		
	15006471	NO OF DRUMS	<u> </u>	y and sever	ral glass j	ars with liqu	ids
III. WASTE T	YPE					-	
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE					-	· · · · · · · · · · · · · · · · · · ·
OLW	OILY WASTE						
SOL	SOLVENTS						
PSD	PESTICIDES		100 emp.	drums	No curfo	ce soil con	*****
осс	OTHER ORGANIC CH	IEMICALS	- о о шр.	urums	was dete		icaminant
ЮС	INORGANIC CHEMIC		 		was dele	CLCu.	· · · · · · · · · · · · · · · · · · ·
ACD	ACIDS						
BAS	BASES						
MES	HEAVY METALS					 	···
IV. HAZARDO	OUS SUBSTANCES (5 40)	pendus for most frequent	r Edda CAS Numberel	l			
O1 CATEGORY	02 SUBSTANCE NA		OJ CAS NUMBER	04 STORAGE DISE	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	N/A			0.0000000000000000000000000000000000000		U3 COACEATAKAOA	CONCENTRATION
						 	
						 	
						 	
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	<u> </u>						
V. FEEDSTO	KS :See Arpende to CAS Number	51				<u> </u>	
CATEGORY	DI FEEDSTOCK	NAME	DZ CAS NUMBER	CATEGORY	O1 FEEDSTO	OCK NAME	DZ CAS NUMBER
FDS				FDS			
FDS				FDS			7
FDS				FDS			
FDS				FDS			
VI. SOURCES	OF INFORMATION .C++ 10	Principal and	Unio Sera Lame to annual co				———— <u>—</u>
	LM Draft Ante				ion Repor	et, 1988.	

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

l	IFICATION
DI SIATE	2878-03-07

PART 3 - DESCRIPTION OF	HAZARDOUS CONDITIONS AND INC	IDENTS INV	2070-03-07
II. HAZARDOUS CONDITIONS AND INCIDENTS		·	
DI C A GROUNDWATER CONTAMINATION	02 OBSERVED (DATE	EXPOTENTIAL	C wysoen
03 POPULATION POTENTIALLY AFFECTED	O4 NADRATINE DECOMPTION	· ·	I ALLEGED
Sampling results do not ind	icate soil contamina	tion on site,	but the
lack of a lined trench, the	possibility of sumpa	s, and the pro	esence of
liquid in glass jars poses	a potential for groun	ndwater conta	mination.
01 C 8 SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	OZ C OBSERVEDIDATE	D POTENTIAL	C ALLEGED
OUT OF OBSTRONPOTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	21 0101211112	
Sampling results, distance	and nathway to meare	et curface was	tor (Coin
Creek) do not indicate a po	tential for surface a	st sullace was	nation
,	tential for sufface s	water contami	nacion.
01 C CONTAMINATION OF AIR			
03 POPULATION POTENTIALLY AFFECTED.	02 C OBSERVEDIDATE	_1 CI POTENTIAL	I ALLEGED
	04 NARRATIVE DESCRIPTION		
No air releases noted.			
Journal world			
01 C D FIRE EXPLOSIVE CONDITIONS	02 OBSERVED (DATE) D POTENTIAL	5 41 2005
03 POPULATION POTENTIALLY AFFECTED.	04 NARRATIVE DESCRIPTION	_) Discusser	C ALLEGED
N/A			
,			
A. 43.6 B. 66.6 B. 66.			
01 1 DIRECT CONTACT 1-2 perso 03 PCPULATION POTENTIALLY AFFECTED per month	n 02 D OBSERVED (DATE	_) Ø#OTENTIAL	T ALLEGED
TOTAL MARKET AFFECTED BET MOTILET	04 NARRATIVE DESCRIPTION		
County personnel disposing	of drume		
- The state of the	or drams.		
01 & F CONTAMINATION OF SOIL Less than 03 AREA POTENTIALLY AFFECTED. 2 acre	02 3 OBSERVED (DATE: 10/15/86	ń. – – – – – – – – – – – – – – – – – – –	
03 AREA POTENTIALLY AFFECTED: 2 acre	04 NARRATIVE DESCRIPTION	2) 3 POTENTIAL	T ALLEGED
Alpha endosulfan (70 ug/kg) ug/kg) and (chloroform
(3 ug/kg), were detected in	soil samples during	the PA No.	compounde
of significance were detect	ed in the compline of	onducted for t	the ST
	ca in the sampling co	Shauctea for 1	ine or .
01 C G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	02 Li OBSERVED (DATE) C POTENTIAL	☐ ALLEGED
	04 NARRATIVE DESCRIPTION		
Soil sample results do not	indicate contamination	on of drinking	r weter
1 · · · · · · · · · · · · · · · · · · ·	Indicate contamination	on or drinking	s water.
01 C H WORKER EXPOSURE INJURY			
03 WORKERS POTENTIALLY AFFECTED:		.) D POTENTIAL	C ALLEGED
	04 NARRATIVE DESCRIPTION		
N/A			
,			
01 C1 POPULATION EXPOSURE INJURY	02 DOBSERVED (DATE	C BATCHITIAN	T ALLECER
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION	POTENTIAL	T ALLEGED
N/A			ì
ν ₁ α			

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NIV 2878-03-

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS 2878**-**03-07 H. HAZARDOUS CONDITIONS AND INCIDENTS COMPANS 01 C J DAMAGE TO FLORA 02 C OBSERVED (DATE ___ 04 NARRATIVE DESCRIPTION G POTENTIAL C ALLEGED N/A 01 C. K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (MCLOS RAMO(S) of SOC(+3) OP C OBSERVED (DATE ______) POTENTIAL **□ ALLEGED** N/A D1 C L CONTAMINATION OF FOOD CHAIN 02 G OBSERVED (DATE __ 04 NARRATIVE DESCRIPTION C POTENTIAL C ALLEGED N/A 01 TM UPISTABLE CONTAINMENT OF WASTES 02 T OBSERVED (DATE _____ I POTENTIAL T ALLEGED 03 POPULATION POTENTIALLY AFFECTED. 04 NARRATIVE DESCRIPTION N/A O1 IN DAMAGE TO OFFSITE PROPERTY II POTENTIAL 04 NARRATIVE DESCRIPTION I ALLEGED N/A 01 TIO CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 TO OBSERVED (DATE _____ I POTENTIAL 04 NARRATIVE DESCRIPTION I ALLEGED N/A 01 E. P. ILLEGAL'UNAUTHORIZED DUMPING 02 C OBSERVED (DATE _____ 04 NARRATIVE DESCRIPTION C POTENTIAL I ALLEGED N/A 05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS N/A III. TOTAL POPULATION POTENTIALLY AFFECTED: 1 - 2 persons/month Direct contact --IV. COMMENTS V. SOURCES OF INFORMATION. CHESITECHE LEFTERACES & Q. STIRLE LEFT SAME RANGES S. FERDUS BLM Site Investigation Report, 7/88. EPA FORM 2070-1317-611

POTENTIAL HAZARDOUS WASTE SITE

LIDENT	IFICATION
OI STATE	OZ SITE NUMBER
NV	2878-03-07

	SITE INSPECTION PART 4 - PERMIT AND DESCRIPTIVE INFORMATION				
M. PERMIT INFORMATION					
OT TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	OJ DATE ISSUED	04 EXPERATION DATE	05 COMMENTS	
DA NPOES		1	,		
C D UIC					
CC AIR		+		 	<u>-</u> <u>-</u>
ED RCRA	+		 		
C.E. RCRA INTERIM STATUS		+	 	 	
CF SPCC PLAN	+		ļ	 	
C G STATE, Seec 411			 	 	
DH LOCAL (Special)			ļ'	ļ	
E I OTHER (Specify)	N6-72-11	1971	Urasant /	530010	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
□ J NONE	110 /2 11	19/1	Present	Special	I land use perm
III. SITE DESCRIPTION			<u></u> !		
01.5700.64.04000					
	O TIMU CO TIMUOMA SO	F MEASURE 04 TR	REATMENT ICAGES IN INSI IN	party)	05 OTHER
A SURFACE IMPOUNDMENT B PILES		ı	INCENERATION		O T BI III WINDS ON DITE
C DRUMS, ABOVE GROUND			UNDERGROUND INJE	· • · · · · · · · · · · · · · · · · ·	☐ A. BUILDINGS ON SITE
D D TANK, ABOVE GROUND		1	CHEMICAL/PHYSICAL	L	1
□ E TANK, BELOW GROUND		1 = :	BIOLOGICAL		
TEF LANDFILL	** Conta	ainers	WASTE OIL PROCESS		06 AREA OF SITE
C G LANDFARM		<u>C</u> F:	SOLVENT RECOVERY	•	Two
C H OPEN DUMP			OTHER RECYCLING:F	4ECOVERT	- increas
C I OTHER			OTHER	Edy)	j
** More than 100					
V. CONTAINMENT					<u> </u>
DI CONTADMENT OF WASTES (Check one)					· · · · · · · · · · · · · · · · · · ·
C A ADEQUATE, SECURE	C 8 MODERATE	配 C INADEQU	ATE, POOR	D. INSECUR	RE, UNSOUND, DANGEROUS
Empty containers noted in some cor	in unlined la	andfill p	it. Inadeq	uately o	capped. Liquids
V. ACCESSIBILITY					
O1 WASTE EASILY ACCESSIBLE TYES	& NO	<u> </u>			
Disposal is fence	ed with a locl	ked gate.	However,	no seci	irity force is
on site. 'I. SOURCES OF INFORMATION (C++ see					·
BLM Site Investig		-			

0 ED4		POTE	ENTIAL HAZAF	RDOUS WASTE	SITE	I. IDEN	TIFICATION		
\$EPA			SITE INSPECTION REPORT OF STATE OF STAT						
\>		PART 6 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA NV 2878-03							
H. DRINKING WATER	SUPPLY	######################################							
O1 TYPE OF DEBACKING SUPP (Check to appropria)	'LY		02 STATUS	Unknown		03 DK	STANCE TO SITE		
	SURFACE	WELL	ENDANGERE	D AFFECTED	MONITORED				
COMMUNETY	A. D	8. 🔾	A. 🗆	0. 🗆	C. D		(mō		
NON-COMMUNITY	C. (3X	Ð. Ø:	0. 🖸	E. C	F D	B			
III. GROUNDWATER			· · · · · · · · · · · · · · · · · · ·						
O1 GROUNOWATER USE IN V	TOMITY (CARE)	evel					· · · · · · · · · · · · · · · · · · ·		
2 A CHLY SOURCE FOR	DAINKING	C 8 DRINKING (Other sources events) COMMERCIAL, IN (No other natur source)	DUSTRUL, IRRIGATIO	A PORT OF SHIP AND AND	L. PIDUSTRIAL, PIRIGAT HIPTES SYSTEMS	TON OD	NOT USED, UNLISEABI		
02 POPULATION SERVED BY	GROUND WAT	ER5-20		03 DISTANCE TO HEAR	EST DRINKING WATER Y	veu	0.6 (mg)		
D4 DEPTH TO GROUNDWATE	P	05 DIRECTION OF GRO	UNDWATERFLOW	OS DEPTH TO AQUIFER	OF POTENTIAL YEL	0 100	SOLE SOURCE ADULE		
110-130	2561	NE		OF CONCERN 110-130	36 000 m	, I.,			
	_(h)	<u> </u>		m		(bog)	D YES D NO		
D M in It is a	hchding usesge	BOOM, and location relative to p	Sputtien and business						
0 6 11 - 4	valer a	and irrigat	rion mell:	s downgradi	lent E/NE.	CIO	sest well		
0.0 mile	LUM S.	ite. Bedro	ock encour	ntered 10 i	eet below	grade	e at s ite.		
O RECHARGE AREA		te. Bedro	ock encour	11 DISCHARGE AREA	ıtş	grade	e at site.		
O RECHARGE AREA O YES COMMENTS O NO	N/A	ite. Bedro	ock encour	11 DISCHARGE AREA	***************************************	grade	e at site.		
DRECHARGE AREA YES COMMENTS NO V. SURFACE WATER	N/A	ite. Bedro	ock encour	11 DISCHARGE AREA	ıtş	grade	e at site.		
O RECHARGE AREA O YES COMMENTS O NO	N/A	ite. Bedro	ock encour	11 DISCHARGE AREA	ıtş	grade	e at site.		
DRECHARGE AREA YES COMMENTS NO V. SURFACE WATER	N / A	XIXB IRRIGATION	I. ECONOMICALLY RESOURCES	11 DISCHARGE AREA 12 YES COMMENT 10 NO COMMENT	N/A	5 (a. da. 18) (a. da 18)	e at site.		
O RECHARGE AREA O YES COMMENTS NO V. SURFACE WATER 1 SURFACE WATER USE ICAN DRAWING WATER	N / A	XIXB PRAIGATION IMPORTANT Minimal u	I. ECONOMICALLY RESOURCES	11 DISCHARGE AREA U YES COMMEN	N/A	5 (a. da. 18) (a. da 18)			
O RECHARGE AREA O YES O NO V. SURFACE WATER I SURFACE WATER USE ICAN ORDERS WATER DRIMKING WATER 2 AFFECTED POTENTIALLY	N / A	XIXB PRAIGATION IMPORTANT Minimal u	I. ECONOMICALLY RESOURCES	11 DISCHARGE AREA 12 YES COMMENT 10 NO COMMENT	N/A	5 (a. da. 18) (a. da 18)			
O RECHARGE AREA O YES COMMENTS NO V. SURFACE WATER SURFACE WATER USE (CAN A RESERVOIR, RECIDENTIALLY A AFFECTED POTENTIALLY A NAME:	N / A CO OPER CO OP	XIXB PRRIGATION IMPORTANT Minimal to the software in the softw	ECONOMICALLY RESOURCES USE for s	D C. COMMENCE COCK (Cain	N/A N/A NAL. MOUSTRIAL Creek) AFFECTED	() 0. N			
O RECHARGE AREA O YES O COMMENTS O NO V. SURFACE WATER I SURFACE WATER USE ICAN O A RESERVOIR, RECIDENTIALLY A	N / A CO OPER CO OP	XIXB PRRIGATION IMPORTANT Minimal to the software in the softw	ECONOMICALLY RESOURCES USE for s	D C. COMMENCE COCK (Cain	N/A N/A NAL. MOUSTRIAL Creek) AFFECTED site	() 0. N	OT CURRENTLY USE		
O RECHARGE AREA O YES COMMENTS NO V. SURFACE WATER SURFACE WATER USE (CAN A RESERVOIR, RECIDENTIALLY A AFFECTED POTENTIALLY A NAME:	N / A CO OPER CO OP	XIXB PRRIGATION IMPORTANT Minimal to the software in the softw	ECONOMICALLY RESOURCES USE for s	D C. COMMENCE COCK (Cain	N/A N/A NAL. MOUSTRIAL Creek) AFFECTED Site D	() 0. N	OT CURRENTLY USE		
O RECHARGE AREA O YES COMMENTS NO V. SURFACE WATER SURFACE WATER USE (CAN A RESERVOIR, RECIDENTIALLY A AFFECTED POTENTIALLY A NAME:	N / A CO OPER CO OP	XIXB PRRIGATION IMPORTANT Minimal to the software in the softw	ECONOMICALLY RESOURCES USE for s	D C. COMMENCE COCK (Cain	N/A N/A NAL. MOUSTRIAL Creek) AFFECTED Site D	() 0. N	OT CURRENTLY USE		
O RECHARGE AREA O YES COMMENTS O NO V. SURFACE WATER 1 SURFACE WATER USE (CA) O A RESERVOIR RECIDENTIALLY ANAME: Cain Creek	N/A REATION SOURCE AFFECTED BOX - howe	XIXB PRRIGATION IMPORTANT Minimal to DESOF WATER	ECONOMICALLY RESOURCES USE for s	D C. COMMENCE COCK (Cain	N/A N/A NAL. MOUSTRIAL Creek) AFFECTED Site D	() 0. N	OT CURRENTLY USE		
O RECHARGE AREA O YES COMMENTS NO V. SURFACE WATER SURFACE WATER USE (CAN A RESERVOIR, RECIDENTIALLY A AFFECTED POTENTIALLY A NAME:	N/A REATION SOURCE - howe	XIXB PRRIGATION IMPORTANT Minimal to DESOF WATER	ECONOMICALLY RESOURCES USE for s	DC. COMMENCE TOCK (Cain	N/A N/A N/A N/A NAL. MOUSTRIAL Creek) AFFECTED Site D O	O 0. No	OT CURRENTLY USE		
O RECHARGE AREA O YES ONO V. SURFACE WATER I SURFACE WATER USE (CA) O A RESERVOIR RECIDENTIALLY (A) NAME: Cain Creek DEMOGRAPHIC AND TOTAL POPULATION WITHIN	N/A REATION SOURCE AFFECTED BOTH PROPERTY	XIXB PRIGATION IMPORTANT Minimal to DESOF WATER EVER, no co	ECONOMICALLY RESOURCES USE for Si	D C COMMERCE TOCK (Cain etected at	N/A N/A NAL. MOUSTRIAL Creek) AFFECTED Site D	O 0. No	OT CURRENTLY USE		
O RECHARGE AREA O YES O NO V. SURFACE WATER I SURFACE WATER USE (CAN DEMOGRAPHIC AND TOTAL POPULATION WITHE	N/A REATION SOURCE AFFECTED BOTH PROPERTY	XIXB PRRIGATION IMPORTANT Minimal to DESOF WATER	ECONOMICALLY RESOURCES USE for Si	D C COMMERCE TOCK (Cain etected at	N/A N/A N/A N/A N/A N/A N/A N/A	DIS	OT CURRENTLY USE		
O RECHARGE AREA O YES ONO V. SURFACE WATER I SURFACE WATER USE (CA) O A RESERVOIR RECIDENTIALLY (A) NAME: Cain Creek DEMOGRAPHIC AND TOTAL POPULATION WITHIN	N/A REATION SOURCE AFFECTED BOTH PROPERTY	MINIMAL 1 DESOFWATER EVER, NO CO	THREE (3)	DC. COMMENCE TOCK (Cain	N/A N/A N/A N/A N/A N/A N/A N/A	O 0. No	OT CURRENTLY USE		
O RECHARGE AREA O YES O NO V. SURFACE WATER I SURFACE WATER USE (CAN DEMOGRAPHIC AND TOTAL POPULATION WITHE	N/A REATION SOURCE howe	MINIMAL INFORMATION O(2) MILES OF SITE 10-25 NO OF PLESONS	THREE (3)	DISCHARGE AREA DIVES COMMEN COMMEN COCK (Cain etected at MRES OF SITE 0 OF PERSONS	AFFECTED Site D O DISTANCE TO ME ARES	DIS	STANCE TO SITE		
O RECHARGE AREA O YES COMMENTS NO V. SURFACE WATER I SURFACE WATER USE (CA) O A RESERVOIR RECIDENTIALLY (A) PARTICIPATION OF THE COMMENT OF SITE A 5-10 NO OF PERSONS	N/A REATION SOURCE howe	MINIMAL INFORMATION O(2) MILES OF SITE 10-25 NO OF PLESONS	THREE (3)	D C COMMENCE TO COMMENCE TO CK (Cain etected at Commence to CK)	AFFECTED Site D O DISTANCE TO ME ARES	DIS	STANCE TO SITE		
O RECHARGE AREA O YES COMMENTS NO V. SURFACE WATER I SURFACE WATER USE (CA) O A RESERVOIR RECIDENTIALLY (A) NAME: Cain Creek DEMOGRAPHIC AND TOTAL POPULATION WITHER ONE (1) MALE OF SITE A 5-10 NO OF PERSONS	N/A REATION SOURCE	MINIMAL INFORMATION INFORMATION (2) MILES OF SITE 10-25 NO OF PLESONS ULES OF SITE	THREE (3)	D C. COMMEND C	AFFECTED SITE D STANCE TO MEARES ST OFF SITE BUILDING	O D. No	STANCE TO SITE		
O RECHARGE AREA O YES COMMENTS NO V. SURFACE WATER SURFACE WATER USE (CA) A RESERVOIR RECIDENSING WATER A AFFECTED POTENTIALLY / NAME: Cain Creek DEMOGRAPHIC AND TOTAL POPULATION WITHIN ONE (1) MILE OF SITE A 5-10 NO OF PERSONS NUMBER OF BUILDINGS WITHIN POPULATION WITHIN VICINI	N/A REATION SOURCE AFFECTED BOTH PROPERTY TWO HIN TWO (2) M 5-10	MINIMAL INFORMATION INFORMATION (2) MILES OF SITE 10-25 NO OF PLESONS ULES OF SITE	THREE (3)	D C. COMMENCE ON COMMENCE COCK (Cain Cain Cain Cain Cain Cain Cain Cain	AFFECTED SITE D STANCE TO MEARES ST OFF SITE BUILDING	DIS	OT CURRENTLY USE STANCE TO SITE 0 . 25		

EPA FORM 2070 13 (7 81)

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

VELA	SITE INSPEC PART 5 - WATER, DEMOGRAPH	CTION REPORT IIC, AND ENVIRONMENTAL DATA	NV 2878-03-07
VI. ENVIRONMENTAL INFORMATIO	DN		
DI PERMEABILITY OF UNSATURATED ZONE	(Check one)		
l .=	n/sec □ B 10-4 - 10-4 cm/sec ☆	RC: 10*4 = 10*3 cm/sec □ D: GREATE	R THAN 10-3 cm/sec
OZ PERMEMBILITY OF BEDROCK (Check and)			
C A IMPERMEAE	BLE	LE C. RELATIVELY PERMEABLE C	D. VERY PERMEABLE (Greater than 18" ² cm sec)
03 DEPTH TO BEDROCK 04	DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
(m)	N / A(n)	N/A	
_	ONE YEAR 24 HOUR RAIMFALL	OB SLOPE DIRECTION OF SITE	SLOPE TERRAIN AVERAGE SLOPE
(ii)	2.5 - 4 (in)	12 K	12
OS FLOOD POTENTIAL SITE IS IN YEAR FLOODP	LAIN SITE IS ON BARRII	ER ISLAND, COASTAL HIGH HAZARD AREA	. RIVERINE FLOODWAY
11 DISTANCE TO WETLANDS IS NOT MINIMUM	Y / /	12 DISTANCE TO CRITICAL HABITAT (of andanger	
ESTUARINE	N/A OTHER	observed in area.	Unknown (mi)
A(mi)	B(mi)	ENDANGERED SPECIES: Falc	on, Golden Eagle
13 LAND USE IN VICINITY		Constitution of the consti	
DISTANCE TO:			
COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS, NATION FORESTS, OR WILDLIFE	VAL STATE PARKS. AGR E RESERVES PRIME AG LAI	ICULTURAL LANDS ND AG LAND
N/A (mi)	B N/A	(mi)	(mi) D1 (mi)
14 DESCRIPTION OF SITE IN RELATION TO SUI	RROUNDING TOPOGRAPHY		
Stock grazing land l mile northeast o	s adjacent to prope f site.	erty. Agricultural	land approximately
TH SOURCES OF INFORMATION (C40) Site Investigation		, prepared by Roy F	Weston for
BLM.	- Mepore, Sury 1900	, prepared by koy f	, weston for

OFDA	_		POTENTIAL HAZARDOUS WASTE SITE	I. IDENTIFICATION
SEPA	•		SITE INSPECTION REPORT ART 6 - SAMPLE AND FIELD INFORMATION	01 STATE 02 STE NUMBER NV 2878-03-07
H. SAMPLES TAR	(EN			
SAMPLE TYPE		01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTMATED DATE PESULTS AVAILABLE
GROUNDWATER	1			
SURFACE WATE	R			
WASTE				
AIR	·	<u> </u>		
RUNOFF				
SPILL		<u> </u>		
SOIL		9	Weston Analytics, Stockton, C	A July, 198
VEGETATION			western maryeres, secretor, s	A Buly, 1900
OTHEA			·	
III. FIELD MEASU	REMENTS TA	KEN		
DI TYPE		102 COMMENTS	ngs above background.	
Radiation	n			·
HNU		No readi	ngs above background.	
			•	
IV. PHOTOGRAPH	S AND MAPS			
OT TYPE IS GROUP			02 IN CUSTODY OF ROY F. Weston/R. Muell	er
DJ MAPS (XYES	04 LOCATION	- -	Line and to fill an ending a such addition	
C NO	1	F. Weston		
V. OTHER FIELD D	ATA COLLEC	TED iffioride nerveine desi	rg lan;	
N / A				
N/A				
VI. SOURCES OF I	FORMATION	I i Chascas te rationates a c	stara has damo vigologic repires	
			port, July 1988, Roy F. Weston	
2211 216	TH 4 C D C	reacton ve	poll, July 1900, Roy F. Weston	
				i

EPA FORM 2070 13 17 811

O EDA	1	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT			I. IDENTIFICATION OI STATE OZ SITE NUMBER		
≎EPA							
H CHESSAL OWNER.	<u></u> -	PART 7 - OW	/NER INFORMATION	NV	2878-03-07		
II. CURRENT OWNER(S)			PARENT COMPANY (PARAMENT)				
Department	of Interior	05 D+8 M/MBEH	OS NAME		09 D+ B NUMBER		
Bureau of Land	Management	04 SIC CODE			1		
		OF SIC CODE	10 STREET ADDRESS IP O Box MO F oct		11 SIC CODE		
DS CITY	O6 STATE	O7 ZIP CODE	12 City	1,20244	14 ZIP CODE		
	}		Table Tabl	1331416	I ZIP CODE		
O1 NAME		OZ D+ B NUMBER	OS NAME		OP D+ B NUMBER		
OD STREET ADDRESS (P. D. Box. RFD	# ale)	04 SIC CODE	10 STREET ADDRESS P O Box AFD F. SEE J		11 SIC CODE		
		1	1		}		
OS CITY	06 STATE	07 ZIP CODE	15 CITY	13 STATE	14 ZIP CODE		
				- 1			
OT NAME		02 0+8 NUMBER	OB NAME		O9 D + B NUMBER		
DE STREET ADDRESSIP D Bei AFD							
STATE OF THE STATE OF THE REPORT	• Hc J	04 SIC CODE	10 STREET ADDRESS IP O Box AFD + alc)		I 1 SIC CODE		
05 CITY	los state	07 ZIP CODE	12 CITY	7-3-0			
	3001212	v. 1 400e	12011	ITSTATE	14 ZIP CODE		
DI NAME		02 D + B NUMBER	08 NAME		09 D+ B NUMBER		
					CSD1BNOMBEN		
03 STREET ADDRESS IP O BO. AFD	* elc J	04 SIC CODE	10 STREET ADDRESS (P.O. Box MED P. DEC.)		11 I SIC CODE		
05 CITY	06 STATE	O7 ZIP CODE	13 CITY	13 STATE	14 ZIP CODE		
				j			
III. PREVIOUS OWNER(S) 44	if most recent fests		IV. REALTY OWNER(S) # applicable to	i most recent first)			
O1 NAME		02 0+ B NUMBER	01 NAME		R38MUM 8 +O 50		
O3 STREET ADDRESS (P O Box MED		04 SIC CODE					
or annual resolution of the	- 11.	0.000	D3 STREET ADDRESS (F O Box RFD # orc)		D4 SIC CODE		
OS CITY	OSTATE	07 ZIP COO€	05 CITY	OS STATE	07 ZIP CODE		
	i						
01 NAME		D2 D+ 6 NUMBER	O1 NAME		02 D+ B NUMBER		
		· • • • • • • • • • • • • • • • • • • •					
03 STREET ADDRESS IP 0 Box. RFD	F. arc f	04 SIC CODE	03 STREET ADDRESS IP O Box AFD # are 1		04 SIC CODE		
OS CITY	OS STATE	D7 ZIP CODE	OS CITY	ING ETATE	O7 ZIP CODE		
				"""	01 22-006		
O1 NAME		02 D+8 NUMBER	O1 NAME		02 D+8 NUMBER		
			1				
03 STREET ADDRESS IF O BOX AFD	•ic ;	04 SIC CODE	DI STREET ADDRESS & Be #704, DE 1		04 SIC CODE		
OSCITY							
USGIT	OSSIATE	07 ZIP COO€	OS CITY	DE STATE	07 ZIP CODE		
V SOURCES OF INCORMAT	1011						
V. SOURCES OF INFORMAT	INVIA IENE POSCHE ISLANDICES . S	g. State ties, same e and ys	d recents				
PA FORM 2070-13 (7-81)							

VCFA		SITE INSPI	ARDOUS WASTE SITE ECTION REPORT	I. IDENTIFICATION			
II. CURRENT OPERATO)R (********		PART 8 - OPER	ATOR INFORMATION			
1 NAME	12 (Canala a delatavi (com		02 D+B NUMBER	OPERATOR'S PARENT COMPAN	Y 15 marca 2001		
Lander Cou	· · · · · · · · · · · · · · · · · · ·		OT DA B MORRIEM	10 NAME		1 1 D+ B NUMBER	
DE STREET ADCRESS (P.O. A.	AFD#, etc.)		04 SIC COO€	12 STREET ADDRESS IF O Bes AFD + etc.)		13 SIC CODE	
S CITY		06 STATE	07 ZIP CODE	14 CITY			
Austin		NV	89310	_	15 STAT	E 16 ZIP CODE	
TENISOF OF ENAMEN	09 NAME OF OWNER					_L	
II. PREVIOUS OPERAT	OR(S) (Lat most recent less	. Pravide env	r if different from suners	PREVIOUS OPERATORS' PARENT			
HAME			02 D+8 NUMBER	10 NAME	COMPANIES	F 1004CAD-01	
	·			Ì			
STREET ADDRESS IP 0 Box	, AFD F, NC		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD+, oc.)		13 SIC COO€	
CITY	0	STATE	07 ZIP COOE	14 CITY	15 STATE	16 ZIP CODE	
						1301	
YEARS OF OPERATION	UG NAME OF OWNER DU	RING THIS	PERIOD		1	L	
NAME		- 10	2 D+B NUMBER	TONAME		\	
		1		1		11 D+8 NUMBER	
STREET ADDRESS IF Q Box.	RFD 6, etc.)		04 SIC COD€	12 STREET ADDRESS (P.O. Box, RED 4, ME)		13 SIC CODE	
			İ			1.3 5.0 5.052	
City	01	STATE	7 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE	
YEARS OF OPERATION	9 NAME OF OWNER DU	RING THIS	PERIOD		<u> </u>		
<u></u>							
NAME			2 D+B NUMBER	10 NAME		11 D+B NUMBER	
CIBELL ADODESE				<u> </u>		-	
STREET ADORESS IF D Box.	AFD #, etc.)		04 SIC COD€	12 STREET ADDRESS IF O Box RED #, atc		13 SIC CODE	
CITY	06	STATE	7 ZIP CODE	14 CITY	lie eritel	14 3/2 6004	
		1			I S S I A I E	16 ZIP CODE	
YEARS OF OPERATION C	9 NAME OF OWNER DU	RING THIS	PERIOD				
SOURCES OF INFOR	MATION (Can analysis of					·	
	1649 BEBERE /BI	***************************************	. Itale not, sample analy pr	1 1000/16.	-	<u></u>	

II. ON-SITE GENERATOR OI NAME Lander County, Nevada O3 SIREET ADDRESS (P O BOX AFD P OFE) O5 CITY AUST IN III. OFF-SITE GENERATOR(S) O1 NAME O3 SIREET ADDRESS (P O BOX AFD P OFE) O5 CITY O5 CITY O6 STATE O7 ZW IV. TRANSPORTER(S) O1 NAME O2 D+ O3 SIREET ADDRESS (P O BOX AFD P OFE) O5 CITY O6 STATE O7 ZW O5 CITY O6 STATE O7 ZW O5 SIREET ADDRESS (P O BOX AFD P OFE) O5 CITY O6 STATE O7 ZW O5 CITY O6 STATE O7 ZW O5 CITY O6 STATE O7 ZW	D+B NUMBER O4 SIC CODE 8 9 3 1 0 D+B NUMBER O4 SIC CODE P+B NUMBER O4 SIC CODE	O1 NAME O3 STREET ADDRESS (P O B30 MD=, sec) O5 CITY O1 NAME	O6 STATE O	2 0+ B NUMBER 04 SIC CODE
Lander County, Nevada OSCITY OSCITY Austin III. OFF-SITE GENERATOR(S) OI NAME OSCITY DI NAME OSCITY O	04 SIC CODE 8 9 3 1 0 04 SIC CODE P CODE P CODE 1P CODE	03 STREET ADDRESS IP O BJG RED P. OKE I 05 CITY 01 NAME	O6 STATE O	04 S4C COO€
Lander County, Nevada O3 STREET ADDRESS (P O BOX. AFD P SIC) O4 STATE O7 28 AUSTIN III. OFF-SITE GENERATOR(S) O1 NAME O2 D- O3 STREET ADDRESS (P O BOX. AFD P SIC) O5 CITY O6 STATE O7 28 O7 CITY O6 STATE O7 28 O7 CITY 04 SIC CODE 8 9 3 1 0 04 SIC CODE P CODE P CODE 1P CODE	03 STREET ADDRESS IP O BJG RED P. OKE I 05 CITY 01 NAME	O6 STATE O	04 S4C COO€	
OS CITY AUSTIN MIL OFF-SITE GENERATOR(S) OI NAME OS CITY OF STATE OF ZH	P CODE 9 9 3 1 0 H B NUMBER 04 SIC CODE P CODE	03 STREET ADDRESS IP O BJG RED P. OKE I 05 CITY 01 NAME	O6 STATE O	04 S4C COO€
AUSTIN AUSTIN BLOFF-SITE GENERATOR(S) OI NAME OS STATE OF ZH	P CODE 9 9 3 1 0 H B NUMBER 04 SIC CODE P CODE	03 STREET ADDRESS IP O BJG RED P. OKE I 05 CITY 01 NAME	O6 STATE O	04 S4C COO€
Austin NV E III. OFF-SITE GENERATOR(S) OI NAME DI STREET ADDRESS (P O Box AFD * BIE) DI NAME DI STPEET ADDRESS (P O Box AFD * BIE) OS CITY DI NAME OS STATE OF ZIE OF STATE OF ZIE OF STATE OF ZIE OF STATE OF ZIE OF STATE OF ZIE OF STATE OF ZIE OF STATE OF ZIE OF STATE OF ZIE OF STATE OF ZIE OF STATE OF ZIE OF STATE OF ZIE OF STATE OF ZIE	8 9 3 1 0 O4 SIC CODE P CODE O4 SIC CODE	03 STREET ADDRESS IP O BJG RED P. OKE I 05 CITY 01 NAME	O6 STATE O	04 S4C COO€
Austin III. OFF-SITE GENERATOR(S) OI NAME O3 STREET ADDRESS IP O BON RED * BIE I D6 STATE O7 ZW D1 NAME D3 STREET ADDRESS IP O BON RED * BIC I O5 CITY O6 STATE O7 ZW IV. TRANSPORTER(S) D3 STREET ADDRESS IP O BON RED * BIC I O6 STATE O7 ZW D3 STREET ADDRESS IP O BON RED * BIC I O6 STATE O7 ZW D5 CITY O6 STATE O7 ZW	8 9 3 1 0 O4 SIC CODE P CODE O4 SIC CODE	03 STREET ADDRESS IP O BJG RED P. OKE I 05 CITY 01 NAME	O6 STATE O	04 S4C COO€
III. OFF-SITE GENERATOR(S) 01 NAME 03 STREET ADDRESS IP 0 Box RFD = SIC 1 05 CITY 01 NAME 02 D- 03 STREET ADDRESS IP 0 Box RFD = SIC 1 05 CITY 06 STATE 07 ZW 17 TRANSPORTER(S) 18 STREET ADDRESS IP 0 Box RFD = SIC 1 07 ZW 18 STREET ADDRESS IP 0 Box RFD = SIC 1	04 SIC CODE P CODE B NUMBER 04 SIC CODE	03 STREET ADDRESS IP O BJG RED P. OKE I 05 CITY 01 NAME	O6 STATE O	04 S4C COO€
OI NAME O3 STREET ADDRESS IP O BOX RED * BIE I O5 CITY D6 STATE O7 ZW O5 CITY O6 STATE O7 ZW O7 ZW O8 STREET ADDRESS IP O BOX RED * BIE I O8 STATE O7 ZW O8 STREET ADDRESS IP O BOX RED * BIE I O8 STATE O7 ZW O8 STREET ADDRESS IP O BOX RED * BIE I O8 STATE O7 ZW	04 SIC CODE P CODE + B NUMBER 04 SIC CODE	03 STREET ADDRESS IP O BJG RED P. OKE I 05 CITY 01 NAME	O6 STATE O	04 S4C COO€
D3 STREET ADDRESS IP O Box RFD + BIE] D5 CITY D6 STATE 07 ZW D7 STREET ADDRESS IP O Box RFD + BIC ; D8 STATE 07 ZW D8 STREET ADDRESS IP O Box RFD + BIC ; D9 STREET ADDRESS IP O Box RFD + BIC ; D9 STREET ADDRESS IP O Box RFD + BIC ; D9 STREET ADDRESS IP O Box RFD + BIC ; D9 STATE 07 ZW	04 SIC CODE P CODE + B NUMBER 04 SIC CODE	03 STREET ADDRESS IP O BJG RED P. OKE I 05 CITY 01 NAME	O6 STATE O	04 S4C COO€
DS CITY D6 STATE O7 ZW D7 NAME D8 STREET ADDRESS IP O Box. RED P. SIC.) D8 STATE O7 ZW	P CODE + B NUMBER 04 SIC CODE	OS CITY		
DI NAME DI NAME DI NAME DI STREET ADDRESS IP O Box. RED P. BIC I OF STATE OF ZW. DI NAME DI NAME DI STREET ADDRESS IP O Box. RED P. BIC I DI STREET ADDRESS IP O Box. RED P. BIC I DI STREET ADDRESS IP O Box. RED P. BIC I DI STREET ADDRESS IP O Box. RED P. BIC I DI STREET ADDRESS IP O BOX. RED P. BIC I DI STREET ADDRESS IP O BOX. RED P. BIC I DI STREET ADDRESS IP O BOX. RED P. BIC I DI STREET ADDRESS IP O BOX. RED P. BIC I DI STREET ADDRESS IP O BOX. RED P. BIC I	P CODE + B NUMBER 04 SIC CODE	OS CITY		
DI NAME DI NAME DI STREET ADDRESS IP O BOI AND P BIC; OS CITY OS STATE OT ZIP IV. TRANSPORTER(S) DI NAME DI STREET ADDRESS IP O BOI AND P. BIC; OS STATE OT ZIP	+ B NUMBER	O1 NAME		7 ZIP CODE
DESTREET ADDRESS IP O BON RED P BIC 1 OS CITY OF STATE OF ZIP OF STATE OF ZIP OF STATE OF ZIP OF STATE OF ZIP	04 SIC CODE			
OS CITY OF STATE OF ZIP OS CITY OF STATE OF ZIP OS CITY OF STATE OF ZIP			ľ	2 D+ B NUMBER
OS CITY O6 STATE D7 ZF IV. TRANSPORTER(S) D1 NAME D2 D+ D3 STREET ADDRESS (P O Box AFD *. MC) D5 CITY O6 STATE O7 ZP		interpretations		
IV. TRANSPORTER(S) DI NAME DI STREET ADDRESS (P O BOI RED O. ME) DI SCITY DI STATE O7 ZIP	IP CODE	D3 STREET ADDRESS (P O Box AFD P. INC)	-	04 SIC COD€
IV. TRANSPORTER(S) DI NAME DI STREET ADDRESS IP O BOI RED P. DIC I DI STATE OF ZIP	*	05 CITY	Too Francis	
03 STREET ADDRESS (P O Bot AFD + ME) 05 CITY 06 STATE 07 ZIP		05 CIT	OS STATE OF	' ZIP CODE
DE NAME DE STREET ADDRESS (P.O. Box AFD P. BIC) DE CITY DE STATE OF ZIP				<u> </u>
D3 STREET ADDRESS IP O BOI AFD P. MC 1 D5 CITY D6 STATE O7 ZIP	+ 8 NUMBER	01 NAME		
OS CITY OG STATE OF ZIP	7 0 1101110011	U1 NAME	[04	D+8 NUMBER
OS CITY OG STATE OF ZIP	D4 SIC CODE	D3 STREET ADDRESS (F O Bes AFO - MC)		
00 STATE 07 25	04 010 0005	103 2 INEEL WORKE 22 IN C. BOX WIN. BOX		04 SIC CODE
	e copt	05 CITY	las statelo:	
OI NAME	- 0000	05 CN Y	06 STATE 07	ZIP CODE
IT NAME OF DE	+ B NUMBER	O1 NAME		* **********
	· w rowniani.	O1 NAME	""	D+8 NUMBER
DI STREET ADDRESS IP O BOY, AFD +, SKC)	04 SIC CODE	O3 STREET ADDRESS (P O But AFD + etc.)	1	04 SIC CODE
	** *****	An allief i womer and is A few sich. Are h		04 SIL COUL
DS CITY OF STATE OF 24P	PCODE	O5 CITY	06 STATE 07	
	, , , , , , , , , , , , , , , , , , , ,	100 011	00 3	ZIP CODE
V. SOURCES OF INFORMATION IC18 MEDICAL INFORMATION OF A MAIN				

POTENTIAL HAZARDOUS WASTE SITE I. IDENTIFICATION OI STATE OF SITE NUMBER SITE INSPECTION REPORT ΝV 2878-03-07 PART 10 - PAST RESPONSE ACTIVITIES IL PAST RESPONSE ACTIVITIES O1 O A WATER SUPPLY CLOSED 02 DATE 03 AGENCY 04 DESCRIPTION O1 D B TEMPORARY WATER SUPPLY PROVIDED O2 DATE 03 AGENCY 04 DESCRIPTION N/A 01 C PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION 02 DATE 03 AGENCY _ N/A 01 D D. SPILLED MATERIAL REMOVED 02 DATE 03 AGENCY _ 04 DESCRIPTION 01 D E. CONTAMINATED SOIL REMOVED OZ DATE _ 03 AGENCY __ 04 DESCRIPTION 01 D F WASTE REPACKAGED 04 DESCRIPTION D2 DATE _ D3 AGENCY __ N/A 01 G WASTE DISPOSED ELSEWHERE 04 DESCRIPTION 02 DATE __ 03 AGENCY N/A 01 DH ON SITE BURIAL 04 DESCRIPTION D2 DATE __ 03 AGENCY 01 D I IN SITU CHEMICAL TREATMENT 02 DATE 03 AGENCY _ 04 DESCRIPTION N/A 01 D J IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION 02 DATE ___ 03 AGENCY _ N/A 01 D K # SITU PHYSICAL TREATMENT OZ DATE _ 03 AGENCY _ 04 DESCRIPTION 01 | L ENCAPSULATION 04 DESCRIPTION 02 DATE 03 AGENCY __ N/A 01 D M EMERGENCY WASTE TREATMENT OZ DATE _ 03 AGENCY 04 DESCRIPTION N/A 01 D N CUTOFF WALLS 04 DESCRIPTION 02 DATE _ 03 AGENCY 01 CT O EMERGENCY DIKING: SURFACE WATER DIVERSION 02 DATE _ 03 AGENCY ... 04 DESCRIPTION 01 CI P CUTOFF TRENCHES SUMP 04 DESCRIPTION 02 DATE 03 AGENCY _ N/A

02 DATE __

03 AGENCY _

01 C O SUBSURFACE CUTOFF WALL

04 DESCRIPTION
N/A
PAFORM 2070-1317 811

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

O1 STATE O2 SITE NUMBER

NV 2878-03-07

	PART 10 - PAST RESPONSE ACTIVITIES	NV 28/8-03-0/
II PAST RESPONSE ACTIVITIES (Continued)		
OF C. R. BARRIER WALLS CONSTRUCTED OF DESCRIPTION	OZ DATE	03 AGENCY
N/A		
C1 3 CAPPING/COVERING C4 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 D T BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 C U GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 C V BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 C W GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 C X FIRE CONTROL C4 DESCRIPTION	02 DATE	03 AGENCY
N/A		
C1 C Y LEACHATE TREATMENT C4 DESCRIPTION	OZ DATE	03 AGENCY
N/A		
C1 C Z AREA EVACUATED 04 DESCRIPTION	O2 DATE	03 AGENCY
N/A		
01 T ACCESS TO SITE RESTRICTED 04 DESCRIPTION	O2 DATE	03 AGENCY
N/A		
01 C 2 POPULATION RELOCATED 04 DESCRIPTION	O2 DATE	03 AGENCY
N/A		
01 (3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		

III. SOURCES OF INFORMATION (Cor specific references + g. state fles same to a reports)

BLM Site Investigation Report, Weston, July 1988



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

O1 STATE 02 SITE NUMBER

NV 2878-03-07

II. ENFORCEMENT INFORMATION

01 PAST REGIZATORY ENFORCEMENT ACTION I YES TO NO

02 DESCRIPTION OF FEDERAL STATE, LOCAL REGULATORY ENFORCEMENT ACTION

Preliminary site investigation report was conducted by AEPCO, January, 1987, for the BLM. No enforcement actions were conducted.

III. SOURCES OF INFORMATION (Cre specific references e.g., state feet, semple enables repaired

BLM Site Investigation Report by Roy F. Weston, July, 1988.

APPENDIX D HRS DATA SHEET

Facility name: .	ANTELOPE	VALLEY PESTICIDE CONTAINER DISPOSAL SITE
Location:	ANTELOPE	VALLEY, LANDER COUNTY, NEVADA
EPA Region: _	REGION 9	
	arge of the facility:	LANDER COUNTY BOARD OF COMMISSIONERS
		AUSTIN, NEVADA 89310
Name of Review	JEFFREY	L. BANNON Date: 8-2-88
	otion of the facility: landfill, surface in	poundment, pile, container; types of hazardous substances; location of the
facility; contam	ination route of m	ajor concern; types of information needed for rating; agency action, etc.)
UNLINE	D LANDFILL	TRENCH FOR DISPOSAL OF EMPTY PESTICIDE/
		NERS. SITE IS LOCATED 5.5 MILES WEST OF
ROUTE	305, 42 MI	LES SOUTH OF BATTLE MOUNTAIN, NEVADA. NO
CONTAM	INANTS ARE	IDENTIFIED IN SOIL SAMPLES COLLECTED DURING
THE SI	TE INVESTI	GATION.
Scoree: S _M =	7.38 12	$\frac{45}{8} = 2.80$ $s_a = 0$
See =	NA	
S _{DC} *	NA 0.28	

HRS COVER SHEET

	s	52
Groundwater Route Score (Sgw)	12.45	155.0
Surface Water Route Score (Ssw)	2.80	7.84
Air Route Score (Sa)	0	0
$s_{gw}^2 + s_{sw}^2 + s_{a}^2$		162.84
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_s^2}$		12.76
$\sqrt{s_{gw}^2 + s_{aw}^2 + s_a^2} / 1.73 - s_M -$		7.38

WORKSHEET FOR COMPUTING s_{M}

		Ground Water Route Work Sheet				
	Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release	0 45	1	0	45	3.1
		e is given a score of 45, proceed to line 4. e is given a score of 0, proceed to line 2.				
2	Route Characteris Depth to Aquifer Concern	*	2	2	6	3.2
	Net Precipitation Permeability of t Unsaturated Zo	ne 0 1 (2) 3	1	0 2	3 3	
	Physical State	0 1 2 3	1	3	3	
		Total Route Characteristics Score		7	15	
3	Containment	0 1 2 3	1	3	3	3.3
4	Waste Characteris Toxicity/Persiste Hazardous Waste Quantity	nce 0 3 6 9 12 15 (18)	i	18 2	18 8	3.4
		Total Waste Characteristics Score		2 0	26	
5	Targets Ground Water Use Distance to Near Well/Population Served	est 1 0 4 6 (8) 10	3 1	9	9 40	3.5
		Total Targets Score		17 7140	49	
<u></u>		ultiply 2 x 3 x 4 x 5 57,330 and multiply by 100	5gw -	12.45	57,330	

		S	iurlace Wa	ter Rout	e Work She	et		•	
	Rating Factor			ned Valu	•	Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release	•	<u>o</u>	4	5	1	0	45	4.1
	If observed releas								
2	Route Characteris			73	<u>.</u>				4.2
	Facility Slope ar Terrain 1-yr. 24-hr. Raini	·		_		1	3	3	
	Distance to Near Water		0 1	2 3 2 3		1 2	0 4	3 6	
	Physical State		0 1 2	2 3		1	3	3	
		Tota	l Route Ci	naracteri	stics Score	- 	10	15	
3	Containment		0 1 2	2 3		1	3	3	4.3
4	Waste Characteris Toxicity/Persiste Hazardous Wast Quantity	ence	0 3 6	9 12 2 3 4	15 (18) 5 6 7	1 8 1	18 2	18 8	4.4
		Tota	il Waste Ci	naracteri	stics Score	,	20	26	
5	Targets Surface Water U	laa '	. 20				7	•	4.5
	Distance to a Se	nsitive	0 1	2 3		3 2	3 0	9 6	•
	Population Serve to Water Intake Downstream	ed/Distance	12 16 24 30	6 8 18 20 32 35	10 40	1	0	40	•
			Total Ta	irgets Sc	ore		3	55	
_		multiply 1 :		5 0 x 5			1800	64,350	
7	Divide line 6 by	y 64,350 and n	nultiply by	100		S _{sw} =	2.80		

			Air	Route W	ork Sheet				
	Rating Factor			gned Varcle On		Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release		(6)		45	1	0	45	5.1
	Date and Location:	:						-	
	Sampling Protocol	:							
			eed to line						
2	Waste Characterist Reactivity and	tics	0 1	2 3		1		3	5.2
-	Incompatibility Toxicity Hazardous Waste Quantity		0 1 0 1	2 3 2 3	4 5 6 7 8	3 1		9 8	
		•	Total Waste	Characte	eristics Score			20	
3	Targets Population Within 4-Mile Radius		0 9 21 24	12 15 1	8	1		30	5.3
	Distance to Sensiti	tive	0 1			2		6	
	Land Use		0 1	2 3		1		3	
			Total	largets	Score	Piler Score (Section)			
4	Multiply 1 x 2) × 3						35,100	
5	Divide line 4 by	35,100 a	nd multiply t	y 100		Sa-	0	<u></u> 1	

		Fire	and	Ex	plos	slor	1 W	ork (She	et	NA		<u></u>	
	Rating Factor	, a		gne			8				Multi- plier	Score	Max. Score	Ref. (Section
1	Containment	1					3				1		3	7.1
2	Waste Characteristics							-						7.2
	Direct Evidence	0			3						1		3	7.4
	Ignitability	ŏ	1	2	3						;		3	
	Reactivity	-	1		3						i		3	
	Incompatibility		1								1		3	
	Hazardous Waste Quantity	Ô	1	2	3	4	5	6	7	8	1		8	
		Total Was	ste	Cha	irac	teri	stic	s Sc	ore:	,			20	
3	Targets										1		l	
	Distance to Nearest			_	_	_	_						_	7.3
	Population	0	7	2	3	4	5				1		5	
	Distance to Nearest	0	1	2	3								3	
	Building	U	ı	~	J						1			
	Distance to Sensitive	0	1	2	3						1		3	
	Environment	•	•	-	_						•		_	
	Land Use	0	1	2	3						1		3	
	Population Within 2-Mile Radius	0	1	2	3	4	5				1		5	
	Buildings Within 2-Mile Radius	0	1	2	3	4	5				1		5	
											·			
		То	tal '	Tarç)ets	Sc	ore						24	
	Multiply 1 x 2 x	3									_	_	1,440	
3	Divide line 4 by 1,440	and multiple									FE =			

FIRE AND EXPLOSION WORK SHEET

		Direct Contact Work Sheet	t .			
	Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Incident	0 45	1	0	45	8.1
	If line 1 is 45, proceed to					
2	Accessibility	0 1 2 3	1	0	3	8.2
3	Containment	0 15	1	0	15	8.3
4	Waste Characteristics Toxicity	0 1 2(3)	5	15	15	8.4
3	Targets Population Within a 1-Mile Radius	0 1 2 3 4 5	4	4	20	8.5
	Distance to a Critical Habitat	0 1 2 3	4	0	12	
		Total Targets Score		4	32	
	If line 1 is 45, multiply If line 1 is 0, multiply 2			60	21,600	
7	Divide line 6 by 21,600 a	nd multiply by 100	SDC -	0.28	· · · · · · · · · · · · · · · · · · ·	

DIRECT CONTACT WORK SHEET